

SUPPLEMENTAL MATERIAL

Supplemental Methods

SOMAScan™ Proteomic profiling. JHS plasma samples were collected at Visit 1 in EDTA tubes, then maintained in -70°C freezers.⁷¹ Proteomic measurements were performed using SOMAScan™, a single-stranded DNA aptamer-based proteomics platform, which contained 1,301 aptamers.⁷² Samples were run in three separate batches.

In MESA, samples were run in one batch. EDTA tubes were collected, stored on ice for no more than 30 minutes, and centrifuged for 15 minutes at 2000g, then stored in -70°C without freeze thaw cycles until assayed.

In HERITAGE, plasma samples were collected in EDTA tubes and stored at -80°C then were diluted in three different concentrations (40%, 1% and 0.05%) and profiled using the expanded SOMAScan™ platform (~5,000 SOMAmers™). Compared to MESA and JHS, some aptamers for a given protein were changed on this expanded platform, and those differences are indicated where appropriate. Plasma samples had either 0 or 1 freeze-thaw cycle prior to proteomics profiling.

All assays in all cohorts were performed using SOMAScan™ reagents according to the manufacturer's detailed protocol.⁷² In brief, a SOMAmer reagent is a single-stranded DNA-based aptamer that is chemically modified to enhance binding to conformational protein epitopes. In addition, SOMAmers are flourophore- tagged to allow detection by standard oligo-array readers. The assay measures proteins directly from plasma using a multi-step capture, release, and re-capture enrichment process. Plasma proteins first bind to the bead-immobilized SOMAmers. SOMAmer -bound proteins are then biotinylated. SOMAmer -protein complexes

are next released by a photocleavage process. Biotinylated proteins are then bound to second set of streptavidin beads. Following a washing step, SOMAmers are released from the protein targets and collected. The fluorophore-tagged modified -nucleotides are quantitated using an oligo-array plate reader providing relative fluorescent unit (RFU) readout, which is proportional to protein concentration in the sample. The assay was performed on 96-well -plates with 85 wells on each plate dedicated to study samples and 11 wells used for quality controls (QC). QC samples include five “calibrator” plasma samples from a single “pool” that are used to assess intra-assay CVs and standardize across experiments; three samples from a distinct “QC” plasma pool are used to assess inter-assay CVs across plates. Sample data was normalized to remove hybridization variation within an oligo-array reader set followed by median normalization across all samples to remove other assay biases within the run and finally calibrated to remove assay differences between runs. Non-human proteins were excluded from analysis. Samples are log-transformed and scaled to mean 0 and standard deviation of 1. This is done *within* batch if batch effects are present, which was the case in JHS but not MESA or HERITAGE.

Olink® proteomic profiling. A subset of 488 individuals from JHS also had proteomic profiling in a single batch using the Olink® Explore 1536 panel (Olink Proteomics AB, Uppsala, Sweden) according to the manufacturer's instructions. The Proximity Extension Assay technology used for the Olink protocol has been well described,³⁷ and Olink Explore enables 1536 analytes to be analyzed simultaneously, using 2.8 µL of each sample. In brief, pairs of oligonucleotide-labeled antibody probes bind to their targeted protein, and if the two probes are brought in close proximity the oligonucleotides will hybridize in a pair-wise manner. The addition of a DNA polymerase leads to a proximity-dependent DNA polymerization event, generating a unique

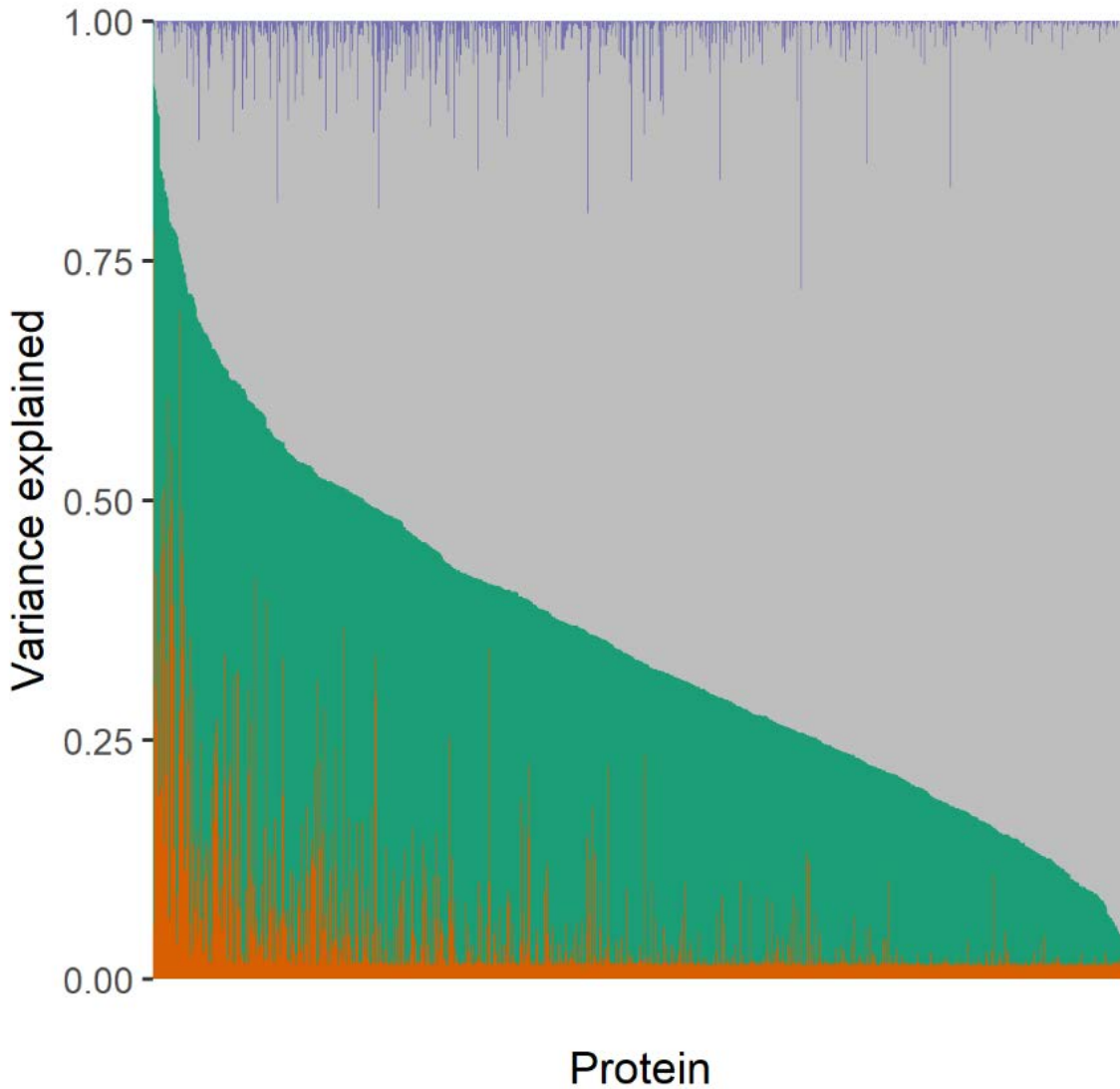
double stranded DNA barcode for each specific antigen. The resulting DNA sequence is subsequently detected and quantified using NGS (Illumina® NovaSeq). Data is then quality controlled and normalized using an internal extension control and a plate control, to adjust for intra- and inter-run variation. The final assay read-out is presented in Normalized Protein eXpression (NPX) values, which is an arbitrary unit on a log₂-scale where a high value corresponds to a higher protein expression. All assay validation data (detection limits, intra- and inter-assay precision data, etc) are available on manufacturer's website (www.olinkeXplore.com).

JHS phenotypes and statistical analysis. Baseline characteristics were assessed at Visit 1 between 2000 and 2004. Diabetes was defined as 1) fasting glucose ≥ 126 mg/dL, 2) hemoglobin A1c (HbA1c) $\geq 6.5\%$, or 3) use of diabetic medication (confirmed by medication inventory or self-reported) within 2 weeks prior to the clinic visit. Resting blood pressure was measured while sitting by recording two measurements with a Hawksley random zero sphygmomanometer using one of four cuff sizes selected by measured arm circumference. Hypertension was defined as use of blood pressure lowering medication or blood pressure $>140/90$ mmHg. Hypertensive treatment was determined by patient medication inventory or self-report of taking blood pressure medication. Routine laboratory measurements were made at the time of first exam using standard venipuncture and laboratory techniques.⁷¹ Glomerular filtration rate (eGFR) was estimated using the CKD-EPI equation.⁷³ Echocardiography was performed at the baseline visit in JHS by a trained sonographer using standard protocols (Sonos-4500; Philips Medical Systems).⁷⁴ Left ventricular (LV) mass was estimated in grams as previously described using the formula $0.8 \times (1.04 \times [([interventricular\ septal\ thickness\ in\ the\ end\ diastole + LV\ end\ diastolic\ dimension + posterior\ wall\ thickness\ in\ the\ end\ diastole]^3 - LV\ end\ diastolic\ dimension)^3]) + 0.6$.⁷⁵

Associations between clinical parameters and protein levels were assessed using linear regression models adjusted for age, sex, proteomic batch/plate, hypertension, systolic blood pressure, diabetes, HbA1c, and body mass index. Left ventricular mass was natural log transformed to improve normality.

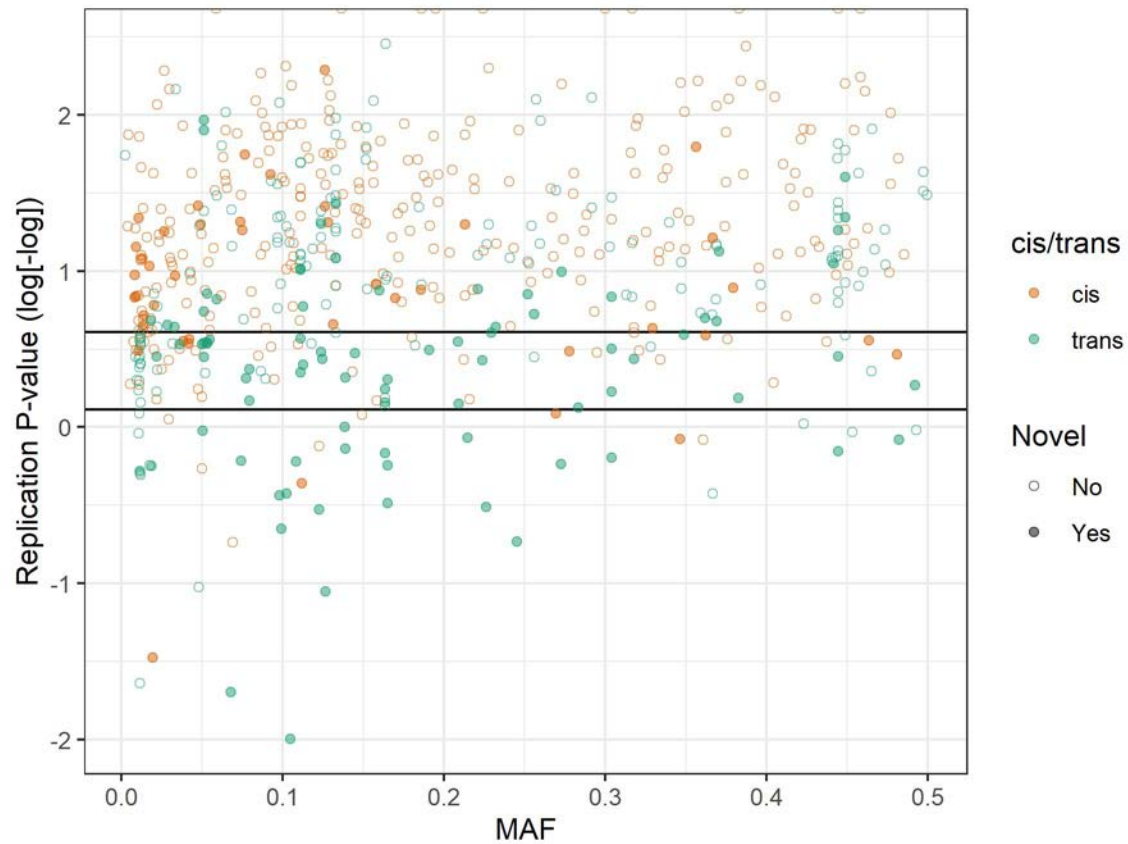
Supplemental Figures:

Figure S1.



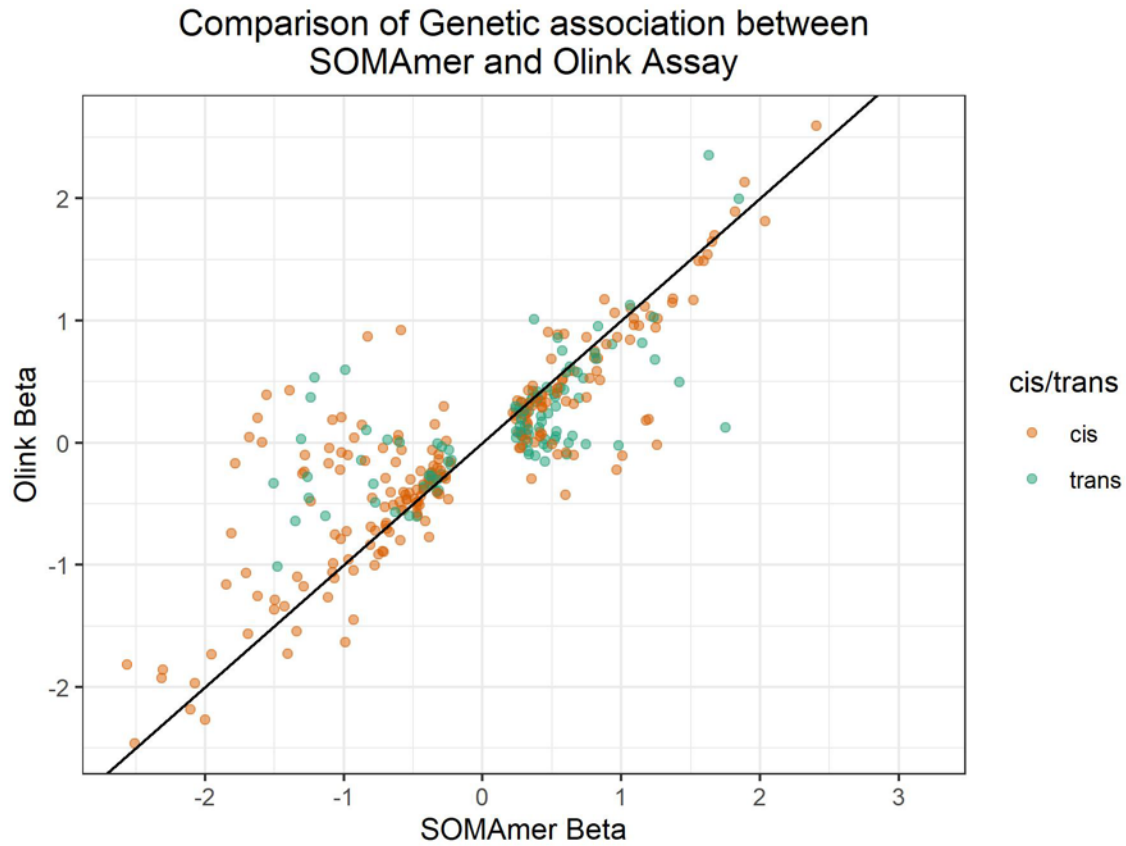
Variance explained across proteins whose total heritability could be estimated (N=1120). Orange represents variance explained by top SNP, while green+orange represents total heritability. Purple is variance explained by clinical covariates: age, sex, systolic blood pressure, diabetes, use of hypertensive medication, current smoking status, and a history of coronary heart disease. Grey represents unexplained variance.

Figure S2.



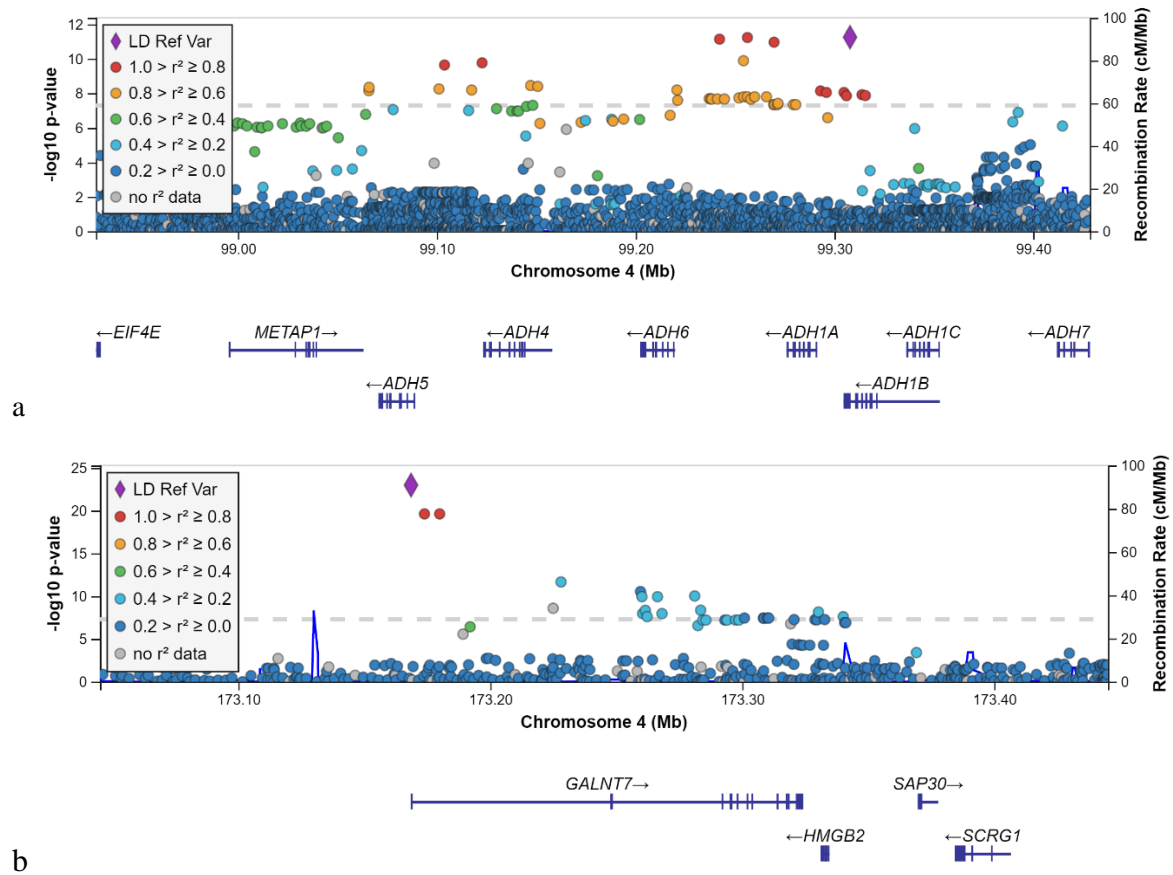
Minor allele frequency in Jackson Heart Study vs p-value of meta-analysis in MESA/HERITAGE for 569 sentinel SNPs. Shaded circles indicate sentinel SNPs for novel loci. The p-values on the y-axis have been transformed ($\log(-\log(p))$) for clearer viewing. The lower horizontal line corresponds to $p=0.05$, while the higher line corresponds to $p = 0.05/569 = 8.8 \times 10^{-5}$

Figure S3.



Association between protein levels and sentinel variant for any proteins represented on both SOMA and Olink platforms. The line represents the identity.

Figure S4.



Locus zoom plots for two novel pQTLs: *ADH1B* (sentinel SNP rs2066702) and *NAMPT* (a) and *GALNT7* (sentinel SNP rs576753655/rs545617673) and plasminogen/angiotatin (b).

Supplemental Excel Files

Table S1	Summary demographics for the three cohorts included in the manuscript
Table S2	Total heritability for each protein
Table S3	Main list of pQTLs (Afr = African, NF Eur = Non-Finnish European)
Table S4	Additional cis-pQTLs to a p value of $< 5e-6$
Table S4	List of pQTLs by Meta-analysis between JHS, MESA, and HERITAGE
Table S6	All pQTL variants which overlap with ClinVar variants
Table S7	All pQTL variants which overlap with GWAS findings as indexed in Phenoscanner V2

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Lee, Sandra	Baylor College of Medicine Human Genome Sequencing Center		Houston	Texas	77030	US
Lee, Wen-Jane	Taichung Veterans General Hospital Taiwan		Taichung City		407	TW
LeFaive, Jonathon	University of Michigan		Ann Arbor	Michigan	48109	US

Name	Institution(s)	Primary Department	Institution City	Institution State	Zip Code	Country
Levine, David	University of Washington		Seattle	Washington	98195	US
Levy, Dan	National Heart, Lung, and Blood Institute, National Institutes of Health		Bethesda	Maryland	20892	US
Lewis, Joshua	University of Maryland		Baltimore	Maryland	21201	US
Li, Xiaohui	Lundquist Institute		Torrance	California	90502	US
Li, Yun	University of North Carolina		Chapel Hill	North Carolina	27599	US
Lin, Henry	Lundquist Institute		Torrance	California	90502	US

Name	Institution(s)	Primary Department	Institution City	Institution State	Zip Code	Country
Lin, Honghuang	Boston University		Boston	Massachusetts	02215	US
Lin, Xihong	Harvard School of Public Health		Boston	Massachusetts	02115	US
Liu, Simin	Brown University	Epidemiology and Medicine	Providence	Rhode Island	02912	US
Liu, Yongmei	Duke University	Cardiology	Durham	North Carolina	27708	US
Liu, Yu	Stanford University	Cardiovascular Institute	Stanford	California	94305	US
Loos, Ruth J.F.	Icahn School of Medicine at Mount Sinai	The Charles Bronfman Institute for Personalized Medicine	New York	New York	10029	US
Lubitz, Steven	Massachusetts General Hospital		Boston	Massachusetts	02114	US

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Lunetta, Kathryn	Boston University		Boston	Massachusetts	02215	US
	National Heart, Lung, and Blood					
Luo, James	Institute, National Institutes of Health		Bethesda	Maryland	20892	US
		Division of				
Magalang, Ulysses	Ohio State University	Pulmonary, Critical Care and Sleep Medicine	Columbus	Ohio	43210	US
	University of					
Mahaney, Michael	Texas Rio Grande Valley School of Medicine		Brownsville	Texas	78520	US

Name	Institution(s)	Primary Department	Institution City	Institution State	Zip Code	Country
Make, Barry	Johns Hopkins University		Baltimore	Maryland	21218	US
Manichaikul, Ani	University of Virginia		Charlottesville	Virginia	22903	US
Manning, Alisa	Broad Institute, Harvard University, Massachusetts General Hospital					
Manson, JoAnn	Brigham & Women's Hospital		Boston	Massachusetts	02115	US
Martin, Lisa	George Washington University	cardiology	Washington	District of Columbia	20037	US

Name	Institution(s)	Primary Department	Institution City	Institution State	Zip Code	Country
Marton, Melissa	New York Genome Center		New York City	New York	10013	US
Mathai, Susan	University of Colorado at Denver		Denver	Colorado	80204	US
Mathias, Rasika	Johns Hopkins University		Baltimore	Maryland	21218	US
May, Susanne	University of Washington	Biostatistics	Seattle	Washington	98195	US
McArdle, Patrick	University of Maryland		Baltimore	Maryland	21201	US
McDonald, Merry-Lynn	University of Alabama	University of Alabama at Birmingham	Birmingham	Alabama	35487	US
McFarland, Sean	Harvard University		Cambridge	Massachusetts	02138	US

Name	Institution(s)	Primary Department	Institution City	Institution State	Zip Code	Country
McGarvey, Stephen	Brown University	Epidemiology	Providence	Rhode Island	02912	US
McGoldrick, Daniel	University of Washington	Genome Sciences	Seattle	Washington	98195	US
McHugh, Caitlin	University of Washington	Biostatistics	Seattle	Washington	98195	US
McNeil, Becky	RTI International					US
Mei, Hao	University of Mississippi		Jackson	Mississippi	38677	US
Meigs, James	Massachusetts General Hospital	Medicine	Boston	Massachusetts	02114	US
Menon, Vipin	Baylor College of Medicine Human Genome		Houston	Texas	77030	US

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	Sequencing Center					
	University of Colorado					
Mestroni, Luisa	Anschutz Medical Campus		Aurora	Colorado	80045	US
	Baylor College of Medicine					
Metcalf, Ginger	Human Genome Sequencing Center		Houston	Texas	77030	US
Meyers, Deborah A	University of Arizona		Tucson	Arizona	85721	US
Mignot, Emmanuel	Stanford University	Center For Sleep Sciences and Medicine	Palo Alto	California	94304	US

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Mikulla, Julie	National Heart, Lung, and Blood Institute,		Bethesda	Maryland	20892	US
Min, Nancy	National Institutes of Health University of Mississippi		Jackson	Mississippi	38677	US
Minear, Mollie	National Institute of Child Health and Human Development,		Bethesda	Maryland	20892	US
Minster, Ryan L	National Institutes of Health University of Pittsburgh		Pittsburgh	Pennsylvania	15260	US

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Mitchell, Braxton D.	University of Maryland		Baltimore	Maryland	21201	US
Moll, Matt	Brigham & Women's Hospital	Medicine	Boston	Massachusetts	02115	US
Momin, Zeineen	Baylor College of Medicine Human Genome Sequencing Center		Houston	Texas	77030	US
Montasser, May E.	University of Maryland Oklahoma		Baltimore	Maryland	21201	US
Montgomery, Courtney	Medical Research Foundation	Genes and Human Disease	Oklahoma City	Oklahoma	73104	US
Muzny, Donna	Baylor College of		Houston	Texas	77030	US

Name	Institution(s)	Primary Department	Institution City	Institution State	Zip Code	Country
	Medicine Human Genome Sequencing Center					
Mychaleckyj, Josyf C	University of Virginia		Charlottesville	Virginia	22903	US
	Icahn School of Medicine at Mount Sinai		New York	New York	10029	US
Nadkarni, Girish	Johns Hopkins University		Baltimore	Maryland	21218	US
Naik, Rakhi						
Naseri, Take	Ministry of Health, Government of Samoa		Apia			WS
Natarajan, Pradeep	Broad Institute		Cambridge	Massachusetts	02142	US

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Nekhai, Sergei	Howard University		Washington	District of Columbia	20059	US
Nelson, Sarah C.	University of Washington	Biostatistics	Seattle	Washington	98195	US
Neltner, Bonnie	University of Colorado at Denver		Denver	Colorado	80204	US
Nessner, Caitlin	Baylor College of Medicine		Houston	Texas	77030	US
Nickerson, Deborah	Human Genome Sequencing Center		Houston	Texas	77030	US
Nkechinyere, Osuji	University of Washington	Department of Genome Sciences	Seattle	Washington	98195	US
	Baylor College of Medicine		Houston	Texas	77030	US
	Human					

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	Genome Sequencing Center					
North, Kari	University of North Carolina		Chapel Hill	North Carolina	27599	US
O'Connell, Jeff	University of Maryland		Balitmore	Maryland	21201	US
O'Connor, Tim	University of Maryland		Baltimore	Maryland	21201	US
Ochs-Balcom, Heather	University at Buffalo		Buffalo	New York	14260	US
Okwuonu, Geoffrey	Baylor College of Medicine Human Genome Sequencing Center		Houston	Texas	77030	US

Name	Institution(s)	Primary Department	Institution City	Institution State	Zip Code	Country
Pack, Allan	University of Pennsylvania	Division of Sleep Medicine/Department of Medicine	Philadelphia	Pennsylvania	19104-3403	US
Paik, David T.	Stanford University	Stanford Cardiovascular Institute	Stanford	California	94305	US
Palmer, Nicholette	Wake Forest Baptist Health	Biochemistry	Winston-Salem	North Carolina	27157	US
Pankow, James	University of Minnesota		Minneapolis	Minnesota	55455	US
Papanicolaou, George	National Heart, Lung, and Blood Institute, National Institutes of Health		Bethesda	Maryland	20892	US

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Parker, Cora	RTI International	Biostatistics and Epidemiology Division	Research Triangle Park	North Carolina	27709-2194	US
Peloso, Gina	Boston University	Department of Biostatistics	Boston	Massachusetts	02118	US
Peralta, Juan Manuel	University of Texas Rio Grande Valley School of Medicine		Edinburg	Texas	78539	US
Perez, Marco	Stanford University		Stanford	California	94305	US
Perry, James	University of Maryland		Baltimore	Maryland	21201	US
Peters, Ulrike	Fred Hutchinson Cancer Research Center	Fred Hutch and UW	Seattle	Washington	98109	US

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Peysler, Patricia	University of Michigan		Ann Arbor	Michigan	48109	US
Phillips, Lawrence S	Emory University		Atlanta	Georgia	30322	US
Pleiness, Jacob	University of Michigan		Ann Arbor	Michigan	48109	US
Pollin, Toni	University of Maryland		Baltimore	Maryland	21201	US
Post, Wendy	Johns Hopkins University	Cardiology/Medicine	Baltimore	Maryland	21218	US
Powers Becker, Julia	University of Colorado at Denver	Medicine	Denver	Colorado	80204	US
Preethi Boorgula, Meher	University of Colorado at Denver		Denver	Colorado	80204	US

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Preuss, Michael	Icahn School of Medicine at Mount Sinai		New York	New York	10029	US
Psaty, Bruce	University of Washington		Seattle	Washington	98195	US
Qasba, Pankaj	National Heart, Lung, and Blood Institute, National Institutes of Health		Bethesda	Maryland	20892	US
Qiao, Dandi	Brigham & Women's Hospital		Boston	Massachusetts	02115	US
Qin, Zhaohui	Emory University		Atlanta	Georgia	30322	US

Name	Institution(s)	Primary Department	Institution City	Institution State	Zip Code	Country
Rafaels, Nicholas	University of Colorado at Denver	CCPM	Denver	Colorado	80045	US
Raffield, Laura	University of North Carolina	Genetics	Chapel Hill	North Carolina	27599	US
Rajendran, Mahitha	Baylor College of Medicine Human Genome Sequencing Center		Houston	Texas	77030	US
Ramachandran, Vasan S.	Boston University		Boston	Massachusetts	02215	US
Rao, D.C.	Washington University in St Louis		St Louis	Missouri	63130	US

Name	Institution(s)	Primary Department	Institution City	Institution State	Zip Code	Country
Rasmussen- Torvik, Laura	Northwestern University		Chicago	Illinois	60208	US
Ratan, Aakrosh	University of Virginia		Charlottesville	Virginia	22903	US
Redline, Susan	Brigham & Women's Hospital	Medicine	Boston	Massachusetts	02115	US
Reed, Robert	University of Maryland		Baltimore	Maryland	21201	US
Reeves, Catherine	New York Genome Center	New York Genome Center	New York City	New York	10013	US
Regan, Elizabeth	National Jewish Health		Denver	Colorado	80206	US
Reiner, Alex	Fred Hutchinson Cancer Research Center,		Seattle	Washington	98109	US

Name	Institution(s)	Primary Department	Institution City	Institution State	Zip Code	Country
	University of Washington					
Reupena, Muagututi'a Sefuiva	Lutia I Puava Ae Mapu I Fagalele		Apia			WS
Rice, Ken	University of Washington		Seattle	Washington	98195	US
Rich, Stephen	University of Virginia		Charlottesville	Virginia	22903	US
Robillard, Rebecca	University of Ottawa	Sleep Research Unit, University of Ottawa Institute for Mental Health Research	Ottawa		ON K1Z 7K4	CA
Robine, Nicolas	New York Genome Center		New York City	New York	10013	US
Roden, Dan	Vanderbilt University	Medicine, Pharmacology,	Nashville	Tennessee	37235	US

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		Biomedicla Informatics				
Roselli, Carolina	Broad Institute		Cambridge	Massachusetts	02142	US
Rotter, Jerome	Lundquist Institute	Pediatrics	Torrance	California	90502	US
Ruczinski, Ingo	Johns Hopkins University		Baltimore	Maryland	21218	US
Runnels, Alexi	New York Genome Center		New York City	New York	10013	US
Russell, Pamela	University of Colorado at Denver		Denver	Colorado	80204	US
Ruuska, Sarah	Blood Works Northwest		Seattle	Washington	98104	US

Name	Institution(s)	Primary Department	Institution City	Institution State	Zip Code	Country
Ryan, Kathleen	University of Maryland		Baltimore	Maryland	21201	US
Sabino, Ester Cerqueira	Universidade de Sao Paulo	Faculdade de Medicina	Sao Paulo		0131000 0	BR
Saleheen, Danish	Columbia University		New York	New York	10027	US
Salimi, Shabnam	University of Maryland		Baltimore	Maryland	21201	US
Salvi, Sejal	Baylor College of Medicine Human Genome Sequencing Center		Houston	Texas	77030	US
Salzberg, Steven	Johns Hopkins University		Baltimore	Maryland	21218	US

Name	Institution(s)	Primary Department	Institution City	Institution State	Zip Code	Country
Sadow, Kevin	Lundquist Institute	TGPS	Torrance	California	90502	US
Sankaran, Vijay G.	Harvard University	Division of Hematology/Oncology	Boston	Massachusetts	02115	US
	Baylor College of Medicine					
Santibanez, Jireh	Human Genome Sequencing Center		Houston	Texas	77030	US
Schwander, Karen	Washington University in St Louis		St Louis	Missouri	63130	US
Schwartz, David	University of Colorado at Denver		Denver	Colorado	80204	US

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Sciurba, Frank	University of Pittsburgh		Pittsburgh	Pennsylvania	15260	US
Seidman, Christine	Harvard Medical School	Genetics	Boston	Massachusetts	02115	US
Seidman, Jonathan	Harvard Medical School		Boston	Massachusetts	02115	US
Sériès, Frédéric	Université Laval		Quebec City		G1V 0A6	CA
Sheehan, Vivien	Emory University	Pediatrics	Atlanta	Georgia	30307	US
Sherman, Stephanie L.	Emory University	Human Genetics	Atlanta	Georgia	30322	US
Shetty, Amol	University of Maryland		Baltimore	Maryland	21201	US

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Shetty, Aniket	University of Colorado at Denver		Denver	Colorado	80204	US
Sheu, Wayne Hui-Heng	Taichung Veterans General Hospital Taiwan		Taichung City		407	TW
Shoemaker, M. Benjamin	Vanderbilt University	Medicine/Cardiology	Nashville	Tennessee	37235	US
Silver, Brian	UMass Memorial Medical Center		Worcester	Massachusetts	01655	US
Silverman, Edwin	Brigham & Women's Hospital		Boston	Massachusetts	02115	US
Skomro, Robert	University of Saskatchewan		Saskatoon		SK S7N 5C9	CA

Name	Institution(s)	Primary Department	Institution City	Institution State	Zip Code	Country
Smith, Albert Vernon	University of Michigan					
Smith, Jennifer	University of Michigan		Ann Arbor	Michigan	48109	US
Smith, Josh	University of Washington		Seattle	Washington	98195	US
Smith, Nicholas	University of Washington	Epidemiology	Seattle	Washington	98195	US
Smith, Tanja	New York Genome Center		New York	New York	10013	US
Smoller, Sylvia	Albert Einstein College of Medicine		New York	New York	10461	US
Snively, Beverly	Wake Forest Baptist Health	Biostatistical Sciences	Winston-Salem	North Carolina	27157	US

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Snyder, Michael	Stanford University		Stanford	California	94305	US
Sofer, Tamar	Brigham & Women's Hospital		Boston	Massachusetts	02115	US
Sotoodehnia, Nona	University of Washington		Seattle	Washington	98195	US
Stilp, Adrienne M.	University of Washington		Seattle	Washington	98195	US
Storm, Garrett	University of Colorado at Denver	Genomic Cardiology	Aurora	Colorado	80045	US
Streeten, Elizabeth	University of Maryland		Baltimore	Maryland	21201	US
Su, Jessica Lasky	Brigham & Women's Hospital	Channing Department of Medicine	Boston	Massachusetts	02115	US

Name	Institution(s)	Primary Department	Institution City	Institution State	Zip Code	Country
Sung, Yun Ju	Washington University in St Louis		St Louis	Missouri	63130	US
Sylvia, Jody	Brigham & Women's Hospital		Boston	Massachusetts	02115	US
Szpiro, Adam	University of Washington		Seattle	Washington	98195	US
Taliun, Daniel	University of Michigan		Ann Arbor	Michigan	48109	US
Tang, Hua	Stanford University	Genetics	Stanford	California	94305	US
Taub, Margaret	Johns Hopkins University		Baltimore	Maryland	21218	US
Taylor, Kent D.	Lundquist Institute	Institute for Translational Genomics and	Torrance	California	90502	US

Name	Institution(s)	Primary Department	Institution City	Institution State	Zip Code	Country
		Populations Sciences				
	University of Colorado					
Taylor, Matthew	Anschutz Medical Campus		Aurora	Colorado	80045	US
Taylor, Simeon	University of Maryland		Baltimore	Maryland	21201	US
Telen, Marilyn	Duke University		Durham	North Carolina	27708	US
Thornton, Timothy A.	University of Washington		Seattle	Washington	98195	US
		University of				
Threlkeld, Machiko	University of Washington	Washington, Department of Genome Sciences	Seattle	Washington	98195	US
Tinker, Lesley	Fred Hutchinson		Seattle	Washington	98109	US

Name	Institution(s)	Primary Department	Institution City	Institution State	Zip Code	Country
	Cancer Research Center					
Tirschwell, David	University of Washington		Seattle	Washington	98195	US
Tishkoff, Sarah	University of Pennsylvania	Genetics	Philadelphia	Pennsylvania	19104	US
Tiwari, Hemant	University of Alabama	Biostatistics	Birmingham	Alabama	35487	US
Tong, Catherine	University of Washington	Department of Biostatistics	Seattle	Washington	98195	US
Tracy, Russell	University of Vermont	Pathology & Laboratory Medicine	Burlington	Vermont	05405	US
Tsai, Michael	University of Minnesota		Minneapolis	Minnesota	55455	US

Name	Institution(s)	Primary Department	Institution City	Institution State	Zip Code	Country
Vaidya, Dhananjay	Johns Hopkins University		Baltimore	Maryland	21218	US
Van Den Berg, David	University of Southern California	USC Methylation Characterization Center	University of Southern California	California	90033	US
VandeHaar, Peter	University of Michigan		Ann Arbor	Michigan	48109	US
Vrieze, Scott	University of Minnesota		Minneapolis	Minnesota	55455	US
Walker, Tarik	University of Colorado at Denver		Denver	Colorado	80204	US
Wallace, Robert	University of Iowa		Iowa City	Iowa	52242	US
Walts, Avram	University of Colorado at Denver		Denver	Colorado	80204	US

Name	Institution(s)	Primary Department	Institution City	Institution State	Zip Code	Country
Wang, Fei Fei	University of Washington		Seattle	Washington	98195	US
Wang, Heming	Brigham & Women's Hospital, Mass General Brigham		Boston	Massachusetts	02115	US
Wang, Jiongming	University of Michigan					US
Watson, Karol	University of California, Los Angeles		Los Angeles	California	90095	US
Watt, Jennifer	Baylor College of Medicine Human Genome Sequencing Center		Houston	Texas	77030	US

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Weeks, Daniel E.	University of Pittsburgh		Pittsburgh	Pennsylvania	15260	US
Weinstock, Joshua	University of Michigan	Biostatistics	Ann Arbor	Michigan	48109	US
Weir, Bruce	University of Washington		Seattle	Washington	98195	US
Weiss, Scott T	Brigham & Women's Hospital Massachusetts	Channing Division of Network Medicine, Department of Medicine	Boston	Massachusetts	02115	US
Weng, Lu-Chen	General Hospital		Boston	Massachusetts	02114	US
Wessel, Jennifer	Indiana University	Epidemiology	Indianapolis	Indiana	46202	US
Willer, Cristen	University of Michigan	Internal Medicine	Ann Arbor	Michigan	48109	US

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Williams, Kayleen	University of Washington	Biostatistics	Seattle	Washington	98195	US
Williams, L. Keoki	Henry Ford Health System		Detroit	Michigan	48202	US
Wilson, Carla	Brigham & Women's Hospital		Boston	Massachusetts	02115	US
Wilson, James	Beth Israel Deaconess Medical Center	Cardiology	Cambridge	Massachusetts	02139	US
Winterkorn, Lara	New York Genome Center		New York City	New York	10013	US
Wong, Quenna	University of Washington		Seattle	Washington	98195	US

Name	Institution(s)	Primary Department	Institution City	Institution State	Zip Code	Country
Wu, Joseph	Stanford University	Stanford Cardiovascular Institute	Stanford	California	94305	US
Xu, Huichun	University of Maryland		Baltimore	Maryland	21201	US
Yanek, Lisa	Johns Hopkins University		Baltimore	Maryland	21218	US
Yang, Ivana	University of Colorado at Denver		Denver	Colorado	80204	US
Yu, Ketian	University of Michigan		Ann Arbor	Michigan	48109	US
Zekavat, Seyedeh Maryam	Broad Institute		Cambridge	Massachusetts	02142	US
Zhang, Yingze	University of Pittsburgh	Medicine	Pittsburgh	Pennsylvania	15260	US

Name	Institution(s)	Primary Department	Institution City	Institution State	Zip Code	Country
Zhao, Snow Xueyan	National Jewish Health		Denver	Colorado	80206	US
Zhao, Wei	University of Michigan	Department of Epidemiology	Ann Arbor	Michigan	48109	US
Zhu, Xiaofeng	Case Western Reserve University	Department of Population and Quantitative Health Sciences	Cleveland	Ohio	44106	US
Zody, Michael	New York Genome Center		New York	New York	10013	US
Zoellner, Sebastian	University of Michigan		Ann Arbor	Michigan	48109	US