

**All Approved and Funded Ancillary Studies  
(As of 3/15/22)**

<b>Anc #</b>	<b>Title</b>	<b>Study PI</b>	<b>WHI PI</b>	<b>Status</b>	<b>Case controls</b>	<b>Study Dates</b>	<b>Approved Proposals and Published Manuscripts</b>
716	Feasibility of RNA sequencing using archival tumor specimens collected in WHI LILAC	Hazra	N	Approved		05/01/22-04/30/23	
715	HFpEF after breast cancer: An investigation within the Women's Health Initiative	Reding	N	Approved	General population Breast Cancer:6953	12/01/22-11/30/27	
714	Pilot study of sensitive and specific clinical biomarkers of b vitamin deficiency and relationship to AMD	Mares	Y	Approved	OS Controls:100 *200 participants (100 cases with age-related macular degeneration (AMD) and 100 controls from participants of AS471)	10/01/22-09/30/23	
713	Modifying protein intake in older women to mitigate age-related changes in inflammation, physical function and immune capacity	Neuhouser	Y	Approved		07/01/22-06/30/27	
712	Plasma proteomic signatures for Alzheimer's disease and related dementias: the Women's Health Initiative Memory Study	Shadyab	N	Approved	General population Cognitive Decline:1336 Controls:1500 *2836 [1336 with mild cognitive impairment or probable dementia + 1500 in a random sub-cohort selected without regard to Mild Cognitive Impairment (MCI) and Alzheimers Disease and Related Dementias (ADRD) status]	07/01/22-06/30/27	
710	Plasma Bile Acids and Metabolic Homeostasis in the WHI Dietary Modification Trial	Lampe	N	Approved	DM Controls:1221 *2030 [809 in low-fat dietary pattern intervention group (DM-I) + 1221 in usual diet comparison group (DM-C)]	07/01/22-06/30/26	
709	Validation of blood-based biomarkers for the early detection of ER+ breast cancer	Li	N	Approved	CT Breast Cancer - Invasive:200 Controls:400 *200 cases and 400 controls at baseline and AV1	07/01/22-06/30/27	
706	Home blood pressure parameters and anti-hypertensive medication use in relation to cardiovascular disease and mortality among elderly women in the community (HOME-BP)	LaMonte	N	Approved		07/01/22-06/30/27	

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704	Longitudinal metabolomic response to air pollution-related and bone damage in postmenopausal women	Prada	N	Approved		07/01/22-06/30/27	
703	Association of sex steroid hormones and biliary tract cancers in men and women	Koshiol	N	Approved	General population Other/Unknown Cancer:16 Gallbladder Cancer:41 Controls:114 *Cohort: OS, CT (placebo only), DM, CaD	10/01/21-10/03/22	
702	OPACH MIND: A prospective study of accelerometer-measured physical activity and Alzheimer's disease and related dementias in White, Black, and Hispanic Women	Bellettiere	N	Approved	General population	04/01/22-03/31/27	
701	Aging effects of cancer treatment: The role of the epigenetic clock	Feliciano	N	Approved	General population	09/01/22-08/31/27	
700	The WHI Radon Risk Investigation (WHI Risk It?) Study	Whitsel	Y	Approved	General population	09/01/22-08/31/27	
697	Air pollution adductomics and liver cancer risk	VoPham	N	Funded	General population Cancer of Liver:18 Controls:72 *The investigators are specifically requesting HBV and HCV seronegative participants from study AS296	04/01/21-06/30/22	4599
696	Delineating the underlying reasons for the racial disparity in gastric cancer incidence in the United States	Epplein	N	Approved	General population Cancer of Stomach:193 Controls:386 *579 (193 Gastric cancer cases (excluding cardia cancer) and 386 Controls)	07/01/22-06/30/27	
695	Impact of Allostatic Load and Neighborhood Contextual Factors on Breast Cancer in the WHI	Llanos	N	Approved	OS	07/01/22-06/30/23	
694	Prospective metabolomics investigation of stomach cancer across multi-racial groups	Shu	N	Approved	General population Cancer of Stomach:220 Controls:257 *220 stomach cancer cases (183 White + 37 African American) and 257 Controls (183 White and 74 African American)	12/01/22-11/30/27	
693	Seattle Dietary Biomarker Development Center	Neuhouser	Y	Funded	General population	09/01/21-08/31/26	
692	Interdisciplinary epidemiologic consortium to investigate T-cell response in colorectal cancer	Peters	Y	Funded	General population Colorectal Cancer:450	05/01/20-04/30/25	

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690	Epigenetic aging biomarkers of MCI, ADRD, and brain aging in the Women's Health Initiative Memory Study	Shadyab	N	Funded	General population Cognitive Decline:1336 Controls:7504 *1,336 with mild cognitive impairment or probable dementia; 7,504 without MCI or ADRD	08/01/21-07/31/26	
689	Helicobacter infection and liver cancer risk among African Americans and Whites in the United States	Zhang	N	Funded	General population Cancer of Liver:325 Controls:750	07/16/21-06/30/26	
688	The role of the social environment in the association between air pollution and cardiovascular disease	Hajat	N	Approved	General population	06/30/21-07/01/24	
687	Determinants of the racial/ethnic disparity in MGUS risk: An epidemiologic study in 4 cohorts	Desai	N	Funded	General population Multiple Myeloma:729 Controls:877 *1754 with MGUS code, screened to get 877 MGUS cases [729 of which developed Multiple Myeloma (MM)], 965 without MGUS code, screened to get 877 controls	09/20/21-08/31/26	
686	Neuroinflammation and neurodegeneration in Black women participating in the WHI	Natale	N	Approved	General population	06/01/21-05/30/26	
685	Leveraging the evolutionary history to improve identification of trait-associated alleles and risk stratification models in Native Hawaiians	Chiang	N	Approved	General population	04/01/21-05/31/26	
682	Methylmercury exposure and risk of renal cell carcinoma	Luo	Y	Approved	General population Cancer of Kidney:670 Controls:2000 *670 Renal Cell Carcinoma (RCC) cancer cases and 2,000 cohorts	04/01/21-03/31/25	
681	Metabolic profiles and pancreatic cancer	Stolzenberg-Solomon	N	Approved	General population Pancreatic Cancer:1256 Controls:1256	05/01/22-04/30/23	
680	Association of Serum Advanced Glycation End Products with Breast Cancer Risk in the WHI	Peterson	N	Approved	General population Breast Cancer:2073 Controls:2073	01/01/22-12/31/23	
679	Perfluoroalkyl Substances (PFASs) and Liver Cancer Risk in the United States	Zhang	N	Approved	General population Cancer of Liver:325 Controls:650	12/01/21-11/30/25	

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678	NSAID use and tumor inflammatory biomarkers in relation to ovarian cancer risk and survival	Trabert	N	Approved	General population Ovarian Cancer:201 *201 invasive epithelial ovarian cancer cases (including fallopian tube/primary peritoneal cancers)	04/01/22-03/31/27	
675	Pilot study on the feasibility of home blood pressure measurement in older women	LaMonte	N	Approved	General population Controls:50 *Buffalo clinical center	03/01/20-04/30/20	
674	Endocrine disrupting chemicals and postmenopausal breast cancer risk	Reeves	N	Approved	General population Breast Cancer:508 Controls:1016 *1524 (419 BC cases and 838 controls from AS458 and 89 BC cases not included for AS458 at the time and 178 matching controls)	09/01/21-08/31/25	
673	DNA methylation as a novel epigenetic biomarker that regulates metabolic and inflammatory cytokines in the development of obesity-attributable cancers	Jung	N	Approved	General population Breast Cancer - Invasive:500 Controls:500	07/01/22-06/30/25	
671	Infection-based markers of glioma risk in the NCI Cohort Consortium	Egan	N	Approved	General population Cancer of Brain:210 Controls:210 *210 Glioma cases + 210 controls	04/01/22-03/31/27	
669	Characterizing vision impairment and its impact on independence among older adults	Gower	N	Approved	General population	04/01/22-03/31/27	
668	Cancer as a model for accelerated aging: Cell senescence, inflammation and lifestyle	Feliciano	N	Approved	General population Controls:3000 *3,000 (1,500 LILAC II + 1,500 LLS II)	04/01/21-03/31/26	
667	Ms LILAC: Muscle mass in the Life and Longevity After Cancer (LILAC) cohort	Banack	N	Approved	General population	04/01/22-03/31/27	
666	A multi-omics resource for sickle cell trait in African Americans from the Women's Health Initiative	Reiner	Y	Funded	General population Controls:3000 *3,000 African Americans	10/15/20-06/30/24	4661
663	WHISH (Our Voice™) EnCore Study	Stefanick	Y	Approved	General population	07/01/20-06/30/25	
662	MASS: Muscle and disease in postmenopausal women	Banack	N	Approved	General population Controls:4200 *4,200 LLS2	07/01/22-06/30/27	

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661	Objective physical activity and cardiovascular health (OPACH) 2	LaCroix	Y	Approved	General population Controls:4200 *4,200 from OPACH1 (3,200 free of CVD at LLS2 will have blood assays)	07/01/22-06/30/27	
660	Modeling homeostasis of human blood metabolites	Raifery	N	Approved	General population Colorectal Cancer:181 Breast Cancer - Invasive:577 Controls:758 *Same ppts as AS498: 758 WHI case/control pairs from BMD + 450 NPAAS (AS218) ppts + 153 NPAAS-FS (AS272)	07/01/20-06/30/25	
659	WHI Study of clonal hematopoiesis of indeterminate potential and the risk of cognitive decline and impairment in older women	Hayden	N	Analysis	General population	04/20/21-11/03/21	
656	Lipidomics of HDL and LDL and risk of coronary heart disease	Ding	N	Approved	General population CHD:1190 Controls:1190 *2,380pts from BA24: 509 CHD cases and 509 controls from OS, 681 CHD cases and 681 controls from CT	07/01/21-06/30/25	
654	Blood metabolomic profile of glioma risk: A collaborative multi-cohort project	Albanes	N	Funded	General population Cancer of Brain:250 *500 (250 malignant glioma + 250 controls)	09/04/19-09/03/20	4438
652	Measuring muscle mass in postmenopausal women using the creatine dilution method	Banack	N	Approved	General population Controls:100 *100 OsteoPerio	06/01/19-10/31/19	4168, 4169
651	Inflammation, diet, and primary liver cancer risk: a cohort consortium project	Zhang	N	Approved	General population Cancer of Liver:296 Controls:296	09/01/20-08/31/25	
649	Role of Follicle Stimulation Hormone (FSH) in postmenopausal obesity and breast cancer	Bea	N	Approved	General population Breast Cancer - Invasive:747 Controls:2242 *BMD/HT: 91 inv. brca cases + 1,642 controls, BMD/non-HT: 571 inv brca cases, OsteoPerio Study: 85 in brca cases + 600 controls	04/01/22-03/31/27	
647	Interplay of the diet and the gut microbiome in age-related macular degeneration	Millen	Y	Approved	General population	09/01/20-08/31/22	

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637	Investigating the biology of cognitive resilience in WHIMS "APOE e4 escapees" using blood exosomes	Kapogiannis	N	Analysis	General population Controls:572 *304 cognitively impaired + 268 controls	11/04/19- 11/03/20	
636	Multiomics profiling of adverse pregnancy outcomes and cardiovascular disease in women	Parikh	N	Approved	General population	07/01/20- 06/30/25	
635	ERICH-GENE: A genome-wide study of intracerebral hemorrhage	Woo	N	Approved	General population Hemorrhagic Stroke:140	09/01/18- 09/30/23	
633	Understudied but deadly obesity-associated cancers & their relation with molecular/hormonal factors	Strickler	N	Approved	General population Pancreatic Cancer:100 Ovarian Cancer:100 Multiple Myeloma:190 Controls:300 *Total of 1169: In addition to above cases: 115 type II endometrial cancer, 200 renal cancer and 164 diffuse large B-cell lymphoma	07/01/22- 06/30/27	
630	Autoantibodies for small cell lung cancer early detection	Lampe	N	Funded	General population Cancer of Lung:80 Controls:160 *Small cell lung cancer	08/01/19- 07/31/24	4336
629	Rest-activity rhythms, dementia and Alzheimer's disease in older men and women: the role of metabolism and inflammation	Xiao	N	Funded	General population	04/15/20- 03/31/24	4156
628	Clonal hematopoiesis of indeterminate potential (CHIP)	Reiner	Y	Funded	General population Controls:7800 *7800 LLS and 3800 non-LLS WHIMS	07/15/19- 05/31/22	4015, 4067, 4246, 4268, 4275, 4252, 4518, 4629
626	Electrophysiological substrate of arrhythmias: ECGome consortium	Tereshchenko	N	Approved	General population	09/01/21- 08/31/25	
625	Environmental and occupational risk factors for ALS: a case control study	Talbott	N	Approved	General population Accessory Sinus Cancer: Controls:540 *180 ALS deaths + 360 controls	02/01/19- 01/30/20	
622	Biomarkers of oxidative stress, inflammation, and cardiac damage as markers of radiation-induced cardiovascular outcomes in breast cancer	Vasbinder	N	Funded	General population Controls:242 *~56 cardiotoxicity among breast cancer + 168 controls from LILAC (case-control)	07/15/20- 06/30/22	4420, 4429
620	(PanScan 4) Whole Genome Scan for Pancreatic Cancer Risk Cohort Consortium	Amundadottir	N	Funded	General population Pancreatic Cancer:600 Controls:600	05/05/20- 04/30/21	
618	Effects of cocoa flavanol supplements versus placebo on incidence of heart failure hospitalization	Djousse	N	Approved	General population	04/01/19- 03/31/23	

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616	Macular pigment as an integrated risk marker for cognitive decline and dementia	Christensen	N	Approved	General population	04/01/19-05/31/23	
615	Investigating the biology of cognitive resilience in WHIMS "APOE E4 escapees"	Resnick	N	Analysis	General population Controls:1625 *WHIMS (900 cognitively impaired + 725 controls)	11/04/18-11/03/20	4374, 4396
612	B Vitamin Status and Risk for Age-related Macular Degeneration (AMD)	Jacques	N	Approved	OS Controls:2005 *2005 CAREDS	07/01/21-06/30/25	
611	Effect of calcium and Vitamin D supplementation on clonal hematopoiesis and risk of hematological malignancies	Desai	N	Funded	General population	01/11/19-01/10/21	
608	Metabolomics bacterial translocation and risk of liver cancer	McGlynn	N	Funded	General population Cancer of Liver:257 Controls:257 *240 participants from AS296 (120 liver cancer cases and 120 controls); 137 new cases and 137 controls (all new cases and controls)	09/04/18-09/03/19	
606	Phthalate biomarkers and osteoporotic fracture risk in older adults	Reeves	N	Approved	General population Fracture - Hip:438 Controls:1314 *438 adjudicated and self-reported hip fracture cases occurring after AV3; 1314 controls	04/01/22-03/31/27	
603	PRECISION Disease prevention via somatic mutagenesis enumeration (PREDICTION)	Bielas	N	Funded	OS Pancreatic Cancer:75 Colorectal Cancer:75 Ovarian Cancer:75 Cancer of Lung:300 Cancer of Bladder:75 Breast Cancer - Invasive:75 Controls:450	09/15/18-06/30/23	
602	The 1940 census data linkage to measure the early life environment	Rehkopf	N	Funded	General population	08/01/19-04/30/20	
596	This is my story - Participant comment on what is going well through the aging process	Tinker	Y	Approved	General population	10/01/17-09/30/18	
591	Genomic characterization of lung cancer in female never-smokers	Berger	N	Funded	General population Cancer of Lung:150 *LILAC ppts	02/01/18-01/31/20	

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590	Asprosin, body weight, and risk of type 2 diabetes in U.S. men and women	Liu	Y	Funded	General population Type 2 Diabetes:4181 Controls:4181 *8362 participants (4,181 incident diabetes; 4,181 controls) for whom imputed GWAS data (SHARe/ GARNET) or exome sequencing data or whole genome sequencing data are available.	07/01/20-03/31/24	
589	Nocturnal Hypoxia, Sleep and Fractures and Falls: WHI and MrOS	Cauley	Y	Funded	General population	09/15/21-05/31/26	
586	Identification and validation of tumor-associated autoantibodies as markers for early detection of ovarian cancer	Kaaks	N	Approved	General population Ovarian Cancer:227 Controls:454	03/01/20-02/28/22	
584	Epigenetic age as a marker of reproductive age and modifier of cancer risk among postmenopausal women	Binder	N	Funded	General population Breast Cancer:173 Controls:127 *Sample requested from 300 p without prior estradiol measurements (173 invasive breast cancer cases; 127 controls)	08/01/18-07/31/21	3725, 3726
582	Role of the gut microbiome in age-related macular degeneration: A pilot study for mail-based stool collection in aging women	Millen	Y	Approved	General population	12/01/16-08/31/17	
576	Whole genome sequence analysis of ischemic stroke in the Women's Health Initiative	Reiner	Y	Funded	General population Controls:1388 *~1,359 With WGS data from TOPMed (AS564) + ~29 LLS in PAGE (AS349) for RNA seq	04/05/17-01/31/21	
573	Body composition, cancer risk and mortality among postmenopausal women	Bea	N	Funded	General population	07/01/20-06/30/23	4381, 4387, 4397
572	COSMOS Cognition: The effect of dietary flavanols on cognition	Brickman	N	Funded	General population	04/01/16-01/31/20	
564	Trans-Omics for Precision Medicine (TOPMed)	Kooperberg	Y	Analysis	General population VTE:1100 Ischemic Stroke:4000 Hemorrhagic Stroke:900 Controls:5100	01/01/16-10/31/16	3121, 3122, 3123, 3124, 3125, 3126, 3127, 3128, 3129, 3130, 3131, 3132, 3133, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3277, 3278, 3279, 3280, 3281, 3282, 3283, 3284, 3285, 3286, 3287, 3288, 3289, 3290, 3291, 3292, 3293, 3437, 3438, 3439, 3440, 3441, 3442, 3443, 3444, 3445, 3540, 3541, 3542, 3543,



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							3544, 3545, 3546, 3547, 3548, 3549, 3627, 3628, 3629, 3630, 3631, 3632, 3633, 3634, 3635, 3636, 3637, 3638, 3648, 3658, 3661, 3674, 3679, 3680, 3719, 3727, 3767, 3768, 3769, 3770, 3771, 3856, 3857, 3859, 3863, 3864, 3865, 3866, 3867, 3868, 3869, 3870, 3871, 3888, 3890, 3903, 3914, 3916, 3924, 3928, 3948, 3949, 3964, 3965, 3966, 3967, 3968, 3969, 3970, 3971, 3972, 3973, 3976, 3977, 3978, 3979, 3980, 3981, 3988, 3990, 3992, 4015, 4016, 4033, 4040, 4041, 4042, 4043, 4044, 4056, 4057, 4060, 4067, 4110, 4114, 4140, 4141, 4142, 4143, 4144, 4176, 4184, 4185, 4186, 4187, 4188, 4189, 4190, 4191, 4192, 4193, 4194, 4195, 4196, 4197, 4198, 4199, 4200, 4201, 4202, 4203, 4204, 4205, 4206, 4207, 4208, 4209, 4210, 4252, 4260, 4275, 4284, 4285, 4286, 4287, 4288, 4289, 4290, 4291, 4292, 4293, 4294, 4295, 4296, 4297, 4298, 4299, 4300, 4301, 4302, 4303, 4315, 4319, 4338, 4341, 4342, 4343, 4347, 4360, 4361, 4368, 4376, 4400, 4402, 4403, 4404, 4405, 4406, 4407, 4408, 4409, 4410, 4437, 4452, 4459, 4460, 4461, 4462, 4463, 4464, 4465, 4490, 4498, 4530, 4531, 4532, 4533, 4534, 4535, 4536, 4537, 4538, 4539, 4540, 4543, 4548, 4560, 4592, 4593, 4605, 4619, 4620, 4621, 4622, 4623, 4624, 4625, 4626, 4627, 4628, 4638, 4641, 4642, 4658, 4661

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562	Sex steroid hormones in women and development of primary liver cancer	McGlynn	N	Analysis	General population Cancer of Liver:116 Controls:243 *Cases and controls are all AS296 ppts with sufficient sample. OS: 90 liver cancer cases and 165 controls; CT: 26 liver cancer cases and 78 controls.	09/08/16-12/08/16	3419, 3999
560	Serum and urine metabolite profiles of diet measured by weighed food	Moore	N	Funded	General population Controls:153 *153 NPAAS-FS participants	07/29/16-07/28/18	3238
556	The relationship of visceral adipose tissue to CV risk in older women and the modifying influence of subcutaneous fat and sarcopenia	Laddu	N	Approved	General population Controls:110 *110 WHI Stanford participants who previously participated in the OPACH calibration study or the Long Life Study	07/01/16-06/30/21	
554	The descriptive and etiologic epidemiology of abdominal adipose tissue depots in the WHI and cardio-metabolic risk	Odegaard	N	Funded	General population	06/15/17-04/30/21	3578, 3586, 3879, 3982, 4083, 4129, 4230, 4256, 4339, 4381, 4397, 4417, 4513, 4617
553	Collection and molecular characterization of recurrent and metastatic colorectal tumors	Peters	Y	Funded	General population Colorectal Cancer:	07/01/15-08/31/19	
552	Harmonized and pooled approaches in multiple cohorts to understand low concentration health impacts of air pollutants	Kaufman	N	Approved	General population	02/01/16-01/31/20	3898, 3921, 4126, 4323, 4599
551	Risk and penetrance of mutations from breast cancer testing panels in the general population (CARRIERS Consortium)	Kraft	N	Funded	General population Breast Cancer:5500 Controls:5500 *5,500 breast cancer cases and 5,500 matched controls (with preference toward those cases/controls used in M18)	09/25/14-08/31/20	4174
548	Women's Health Initiative sleep hypoxia effects on resilience (WHISPER)	Baker	N	Funded	General population 318 Ppts@10 clinics Any Cancer:	07/01/17-06/30/22	3532, 3533, 3847, 4150, 4393, 4478, 4667
547	Genetic and environmental influences on optic nerve cupping	Vajaranant	N	Approved	CT	04/16/16-04/30/18	
546	A prospective study of endogenous sex hormones, inflammatory markers, insulin and risk of hematopoietic malignancies	Hosgood	N	Approved	General population Lymphoma, Non Hodgkins:822 Multiple Myeloma:275 Controls:550	07/01/17-06/30/20	

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545	Prospective identification of pre-leukemic clones in the peripheral blood of women with acute myeloid leukemia prior to the onset of overt disease	Desai	N	Funded	General population Other/Unknown Cancer:215 Controls:212 *215 cases of AML, 212 age-matched controls. Mod 2: additional 13 participants with therapy related AML. Mods 3 and 4: 400 MDS cases	12/01/15-03/30/22	3363
543	Exploring WBC BRCA1 methylation as a risk factor for incidental cases of high grade serous ovarian cancer and triple-negative breast cancer in WHI	Lonning	N	Funded	General population Breast Cancer:668 Ovarian Cancer:549 Controls:3928 *Specifically, triple negative breast cancer	08/01/18-07/31/20	
538	Genomic analysis of breast cancer genes in the WHI: creation of a public genomics resource	King	N	Funded	General population Controls:30000	08/01/15-06/30/21	3436, 4025
537	A novel endogenous SERM and cholesterol metabolite, 27-hydroxysterol, and fracture risk in postmenopausal women	Lee	N	Analysis	General population Fracture - Hip:227 Fracture (general):200 Controls:400 *From BAA07/W9	03/01/15-08/31/15	2944
536	Targeted serum metabolites profiling in early detection of pancreatic cancer	Jiao	Y	Analysis	General population Pancreatic Cancer:48 Controls:48 *48 pancreatic cancer cases, 48 matched controls.	03/01/15-08/31/15	2926
534	Longitudinal study of DNA methylation as a mediator between age and cardiovascular risk	Conneely	N	Analysis	General population Controls:43 *AS315 participants who have previously had methylation analysis performed at two previous timepoints.	03/01/15-08/31/15	2684, 3188, 3189, 3190, 3307, 3314, 3339, 3381, 3676, 4071
531	Feasibility study to evaluate gut microbiome and CVD-related measures in older women	LaMonte	N	Analysis	OS	03/01/15-08/31/15	
525	Assessing sodium and potassium in 24-h and spot urines: feasibility of calibrating self-reported diet for use in WHI CVD association studies	Tinker	Y	Analysis	General population Controls:150 *All NPAAS-FS with both 24-hour urine and first void urine	03/01/15-08/31/15	2974

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523	Feasibility study to evaluate haptoglobin phenotype and risk of CHD and stroke among older diabetic women	Donahue	N	Complete	OS CHD:100 Stroke:100 Controls:200 *100 cases of CHD or coronary revasc AND diabetes; 100 cases cases of stroke AND diabetes; 100 diabetic cases w/o CHD, revasc, or stroke; 100 non-diabetic cases w/o the outcomes	03/01/15-08/25/15	
518	A pilot RNA-seq study among Long Life Study participants of the WHI	Assimes	Y	Complete	General population Controls:100 *100 AA from LLS who have data from BA23 and BA25, and with no history of CVD and no incident CHD	03/01/15-08/31/15	2955, 2996
516	APOL1, sickle cell trait, and chronic kidney disease in aging women	Franceschini	N	Complete	General population Controls:6304 *6,304 African American (not in PAGE 2)	03/01/15-08/31/15	3606, 3975
515	Molecular pathological epidemiology of colorectal cancer	Peters	Y	Funded	General population Colorectal Cancer:1000 Controls:0 *FFPE DNA (extracted at Mayo) & germline DNA from ~450 LILAC CRC Cases (more cases, up to 1000, if/when available)	09/01/15-08/31/20	
514	WHISH-4-Muscle	Jackson	Y	Approved	General population	10/01/15-09/30/20	
511	WHI strong and healthy silent atrial fibrillation recording (WHISH-STAR) II	Perez	N	Funded	General population 2427 Ppts@10 clinics	04/01/17-03/31/22	3521, 3892, 4603
510	WHISH-2- Prevent Heart Failure	Eaton	Y	Funded	General population	08/01/16-03/31/21	2371, 3119, 3220, 3453
509	Biomarkers of lung cancer risk	Johansson	N	Funded	General population Cancer of Lung:509 Controls:1018 *1527 ever smokers: 509 lung cancer cases/ 1018 sub-cohort members	08/01/17-03/31/23	3040, 3319, 3412, 3503, 3529, 4325, 4657
508	Prevalence and penetrance of breast cancer-associated mutations identified by multiple-gene sequencing	Kurian	N	Funded	General population Breast Cancer - Invasive:2500 Controls:2500	11/01/16-02/28/19	3562, 3563, 3650, 3710, 3939, 4174
507	Microbiome of subgingival dental plaque and tumor tissue in postmenopausal women with invasive cancer: an osteoperio ancillary study	Ochs-Balcom	N	Analysis	General population	10/01/14-12/31/15	

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505	Validation of colon cancer early detection markers	Lampe	N	Funded	OS Colorectal Cancer:288 Controls:576 *Cases requested with colorectal cancer diagnosis with EDTA plasma specimen drawn up to 24 months prior.	05/04/16-03/31/22	
504	A pilot study of a novel qPCR-based measure of relative telomere length in the WHI	Assimes	Y	Complete	General population Controls:120	02/01/15-01/31/16	2774
498	Nutrition and physical activity assessment study (NPAAS) Competing renewal	Neuhouser	Y	Funded	General population Colorectal Cancer:181 Breast Cancer - Invasive:577 Controls:758 *758 WHI case/control pairs from BMD + 450 NPAAS (AS218) ppts + 153 NPAAS-FS (AS272)	01/01/16-06/30/20	1564, 1903, 2073, 2304, 2439, 2462, 2591, 2600, 2974, 3073, 3171, 3180, 3241, 3607, 3613, 3695, 3912, 3913, 3974, 4157, 4232, 4247, 4423, 4566
497	Cataract and age-related macular degeneration in a supplementation trial of a multivitamin and cocoa flavanol	Christen	N	Funded	General population	09/30/16-08/31/21	
495	COcoa Supplement and Multivitamin Outcomes Study in the Mind (COSMOS-Mind)	Baker	N	Funded	General population	06/01/16-02/28/21	3553, 3894, 4393, 4432
493	Effects on Falls and Physical Performance	LeBoff	N	Funded	General population	05/15/21-02/28/25	
482	Serologic inflammatory markers and esophageal adenocarcinoma risk	Cook	N	Analysis	General population Cancer of Esophagus:51 Controls:51	08/07/15-08/06/16	3273
481	Cardiovascular disease and aircraft noise exposure	Peters	N	Funded	General population	09/01/14-06/30/21	2685, 3396, 3990, 4068, 4069
476	APOL1, sickle cell trait and risk of chronic kidney disease in African Americans	Franceschini	N	Complete	General population Controls:13468 *13,468 African American with DNA available	09/01/16-08/31/20	2714, 2715, 2819, 2863, 2996, 3625, 3975, 4360, 4361
473	Examining the effectiveness of tobacco control policies on smoking behaviors and tobacco-related health outcomes among post-menopausal women: An analysis of the WHI	McCausland	N	Analysis	General population	02/01/14-06/30/14	2416, 2417, 4216, 4217
471	Macular pigment in aging and age-related eye disease	Mares	Y	Funded	OS 983 Ppts@2 clinics Controls:464 *464 CAREDS (AS105)	06/01/15-05/31/21	3614, 4216, 4217, 4344, 4611

Anc #	Title	Study PI	WHI PI	Status	Case controls	Study Dates	Approved Proposals and Published Manuscripts
464	Classification of participants in the WHI by rural-urban residence	Simon	Y	Complete	General population	12/30/13-11/30/14	2097, 2632
461	Early detection of ovarian cancer through epigenetic factors in the WHI	Genkinger	N	Funded	General population Ovarian Cancer:610 Controls:610	03/07/16-02/28/22	3248
458	Phthalate metabolites and breast cancer risk in the Women's Health Initiative	Reeves	N	Funded	General population Breast Cancer - Invasive:500 Controls:1000 *from BMD sites	04/15/15-03/31/20	2889, 2890, 3003, 3134, 3470, 3639, 4029, 4082, 4129, 4320, 4499
455	Helicobacter pylori protein-specific antibodies and colorectal cancer risk	Epplein	N	Funded	OS Colorectal Cancer:807 Controls:807	05/01/15-04/30/20	3326, 3557, 3920, 4096, 4103, 4277
450	Physical activity to improve cardiovascular health in women: a pragmatic trial (WHISH) DCC	Kooperberg	Y	Funded	General population 2356 Ppts@11 clinics	02/08/15-02/01/21	
449	Validity of self-reported medication use compared with pharmacy records among a cohort of postmenopausal women	Drieling	N	Complete	General population 288 Ppts@Ccc-Rc	08/01/13-12/31/15	2638
444	Feasibility of hemoglobin A1c measurement by mail for diabetic women in the WHI	Ma	N	Complete	General population Type 2 Diabetes:300	10/01/13-09/30/14	
442	Lichens, polycyclic aromatic hydrocarbons, and cardiovascular disease risk factors	Donovan	N	Analysis	General population	10/01/13-09/30/14	2731, 3810, 4068, 4069
440	Inflammation markers in breast tissue and body mass index and in breast cancer	Neuhouser	Y	Complete	General population	03/01/14-08/31/15	
439	Nutrition and physical activity interest survey	Tinker	Y	Complete	General population 500 Ppts@11 clinics	05/24/13-08/31/13	
438	Hemostatic and inflammatory biomarkers as risk factors for hemorrhagic stroke	Greenland	Y	Complete	OS Hemorrhagic Stroke:75 Controls:75	02/01/14-04/14/14	2520
429	The relationship between neighborhood walkability and health behaviors, body weight, health outcomes, and mortality risk in the WHI cohort	Seguin	N	Analysis	General population	09/01/13-05/30/14	2378, 2576, 2734, 2908, 2909
427	(Pilot study II) Trial of a cocoa supplement and multivitamin for CVD and cancer prevention among WHI participants	Manson	Y	Complete	General population 577 Ppts@11 clinics	01/01/13-05/31/13	
425	A pilot study of urinary bisphenol-A in the Women's Health Initiative	Luo	Y	Complete	General population	11/01/12-09/30/13	2287

Anc #	Title	Study PI	WHI PI	Status	Case controls	Study Dates	Approved Proposals and Published Manuscripts
423	Validating multiple stable isotope measures of diet within the NPAAS Feeding Study (AS272)	O'Brien	N	Complete	General population Controls:153 *153 NPAAS-FS (AS272)	02/17/14- 01/31/17	3056, 3494
422	Cardiovascular biomarkers in WHI Native Americans	Kooperberg	Y	Complete	General population Controls:594 *PAGE Native Americans - 594 (same as pull M6-350)	04/01/13- 08/31/13	3202, 3842
417	Dietary metabolite profiling of nutrition and physical assessment	Raferly	N	Complete	General population Controls:153 *153 NPAAS-FS	01/01/13- 08/31/13	3171, 3607, 3613, 3912, 3913
416	Biomarkers of human age and longevity	Reis	N	Funded	General population Controls:350 *100 women with plasma from baseline and Long Life Study; 50 women with recently frozen plasma (not necessarily LLS); 100 short-lived and 100 long-lived women	10/01/12- 09/30/13	
415	Assessing DNA methylation relationships in blood and tumor tissue	Malone	N	Analysis	General population Breast Cancer - Invasive:73 *73 participants from W47 BTTP with tumor specimen available	11/01/12- 09/30/13	
414	Social networks and health among women in the WHI: A new area of inquiry	Cene	N	Complete	General population	11/01/12- 09/30/13	3177
413	Feasibility of sleep apnea assessment in WHI participants: Prelude to an ancillary study of sleep, CVD and cognitive impairment	Stone	N	Complete	General population Controls:56 *Participants selected from 100 WHIMS ppts	11/01/12- 09/30/13	2853
411	Novel predictors of excess mortality in women with rheumatoid arthritis	Mackey	Y	Analysis	General population Controls:162 *162 BAA20 with anti-CCP+ RA participants who died during follow-up	11/01/12- 09/30/13	2285
408	Validating the chronic condition warehouse (CCW) Alzheimer's disease and related disorders of senile dementia identification algorithm in WHI-linked CMS data	Bensink	N	Complete	General population	11/01/12- 09/30/13	
407	A feasibility study to assess the accuracy of self-reported glaucoma outcomes and participant interest in participating in ancillary glaucoma studies	Vajaranant	N	Complete	General population 200 Ppts@3 clinics	11/01/12- 09/30/13	

Anc #	Title	Study PI	WHI PI	Status	Case controls	Study Dates	Approved Proposals and Published Manuscripts
405	Pharmacogenomics of risk factors for cardiac arrhythmias in global populations	Avery	N	Complete	General population	11/01/12-09/30/13	2064, 2068, 2122
403	Systemic and breast-cancer specific autoimmunity in the WHI	Parks	N	Analysis	General population	11/01/12-09/30/13	2275, 3517
402	Prospective study of biomarkers and risk factors for ALS incidence and progression	Ascherio	N	Complete	General population Controls:363 *121 ALS cases and 242 controls	07/01/14-10/31/19	3147, 3430, 3482, 3651, 3900, 4234
400	Methylation profiling of early stage lung tumors in short and long-term survivors	Cote	N	Complete	General population	11/01/12-09/30/13	
398	Enhanced dietary assessment to evaluate post-trial cancer outcomes in the WHI dietary modification trial.	Tinker	Y	Complete	DM Breast Cancer:796 Ovarian Cancer:70 *4DFRs	01/01/13-08/31/13	1930
397	Assessment of fibromyalgia and polysomatic distress in the WHI: Pilot study	Walitt	Y	Complete	General population	11/01/12-09/30/13	2201, 2202
391	Defining and timing of sudden arrhythmic death in WHI	Eaton	Y	Complete	General population	11/01/12-09/30/13	2421, 2833, 2883
389	A pooled investigation of multiple myeloma risk in relation to circulating adiponectin levels	Hofmann	N	Analysis	General population Multiple Myeloma:200 Controls:400 *Participants will be the cases and controls from AS207	09/25/13-09/24/14	2420
386	Natural environment and cardiovascular incidence and mortality: The WHI	Donovan	N	Complete	General population	09/01/12-09/30/14	1964
385	WHI Strong & Healthy (WHISH) pilot/feasibility study (for AS360)	Stefanick	Y	Complete	CT	07/15/12-09/30/12	2136
384	Methylation profiling of early stage lung tumors in short and long-term survivors (Pilot to AS370)	Anderson	Y	Complete	General population 136 Ppts@11 clinics	06/01/12-08/31/12	
383	Circulating vitamin D levels & risk of breast and colorectal cancer: a pooled analysis	Smith-Warner	N	Analysis	CaD Colorectal Cancer:29 Breast Cancer - NonInvasive:29 *From W24 and W15	02/01/13-06/30/13	
382	The oral microbiome and periodontitis: Longitudinal study in older women in the Buffalo osteoperio study	Wactawski-Wende	Y	Funded	OS Controls:600 *AS98 participants	08/01/14-07/31/19	2598, 2678, 3063, 3265, 3700, 3817, 3923, 4173, 4602
380	Women's driving and mobility study	Shumaker	Y	Analysis	HT Controls:4174 *WHIMS & WHIMS-Y participants are eligible	09/01/13-06/30/16	2991, 4130



Anc #	Title	Study PI	WHI PI	Status	Case controls	Study Dates	Approved Proposals and Published Manuscripts
374	Biomarkers of HPV infection and risk of two increasing cancers	Schlecht	N	Analysis	General population Oral Cancer Unspecified:61 Anus Cancer:85 Controls:350 *61 head and neck cancer cases; 85 anal cancer cases; 29 vaginal cancer cases; 350 controls 29 vaginal cancer cases, 61 head and neck cancer cases (=Oral cancer unspecified ), 85 anal cancer cases, 350 controls	09/01/15-08/31/21	3515
373	Understanding older smokers' unique challenges in quitting: prelude to a smoking cessation RCT in the WHI extension 2	Tindle	Y	Complete	General population	05/01/12-09/30/12	2034
371	Continuity of care for acute myocardial infarction in the WHI	Kucharska-Newton	N	Analysis	OS MI:	07/01/14-06/30/16	1765, 1766, 1767
370	WHI cancer survivor cohort (LILAC)	Anderson	Y	Funded	General population 9560 Ppts@11 clinics Any Cancer:	02/15/13-08/30/24	2228, 2277, 2350, 2353, 2364, 2498, 2616, 2640, 2719, 2720, 2780, 2796, 2855, 2930, 3050, 3066, 3166, 3178, 3248, 3392, 3397, 3413, 3449, 3455, 3488, 3508, 3518, 3560, 3615, 3616, 3642, 3650, 3667, 3702, 3854, 3945, 4095, 4119, 4120, 4128, 4148, 4362, 4363, 4364, 4381, 4420, 4445, 4448, 4449, 4456, 4476, 4570, 4575, 4576, 4645
362	Advanced glycation end-products and risk of pancreatic cancer	Jiao	Y	Complete	General population Pancreatic Cancer:715 Controls:1429 *CT cases/controls from placebo group only	09/20/13-07/31/18	2574, 2788, 2821, 2839, 4354
360	Physical activity to improve cardiovascular health in women: a pragmatic trial (WHISH) CCC	Stefanick	Y	Funded	General population	02/08/15-01/31/21	2136, 4074, 4245, 4270, 4551, 4630
355	Randomized trial of cocoa extract and multivitamins for CVD and cancer prevention	Manson	Y	Funded	General population Any Cancer:	01/01/15-12/31/21	4552, 4553, 4557, 4578
352	(Pilot study) Trial of a cocoa supplement and multivitamin for CVD and cancer prevention among WHI participants	Manson	Y	Complete	General population 835 Ppts@11 clinics	10/31/11-04/30/12	

Anc #	Title	Study PI	WHI PI	Status	Case controls	Study Dates	Approved Proposals and Published Manuscripts
349	Exomic variants and their relation to complex traits in minorities of the WHI (PAGE II)	Kooperberg	Y	Funded	General population Controls:10600 *dbGaP-able OS and CT minority ppts; Whole Genome Sequencing: commercial use dbGaPable predominately native minorities.	09/01/13- 03/31/23	3094, 3095, 3096, 3097, 3098, 3099, 3107, 3110, 3142, 3143, 3154, 3162, 3172, 3182, 3183, 3191, 3207, 3230, 3257, 3305, 3364, 3391, 3587, 3675, 3696, 3698, 3704, 3711, 3727, 3757, 3774, 3779, 3855, 3876, 3896, 3910, 3914, 3951, 3963, 3986, 4006, 4355
346	Serum, vitamin D, and risk of melanoma in WHI-OS	Tang	Y	Complete	OS Melanoma - Skin:718 Controls:718 *Whites only	07/01/12- 06/30/13	1312
343	Cardiovascular disease biomarkers and mediation of hormone therapy effects	Prentice	Y	Complete	HT CHD:20 Stroke:22 Controls:42 *Cases and controls are from the W57 participants in the 6% subsample	08/01/11- 07/31/14	2155
340	Evidence for establishing optimum protein intake in older adults (WHI-FI)	Beasley	N	Analysis	General population	02/01/12- 01/31/16	2261, 2307, 2424, 2805, 3872, 4453, 4604
337	Lymphocyte subpopulations and clonal expansions in older women: epidemiologic factors and relationship to health and aging during the WHI 2010-2015 extension	Edlefsen	Y	Complete	CT Controls:600 *~600 Long Life Study participants [Flow Cytometry done on leftover whole blood from CBC]	03/01/12- 02/28/14	2474, 2746
332	Utility of the AVIIR score in predicting incident coronary heart disease in the WHI	Assimes	Y	Analysis	General population CHD:700 Controls:700 *case cohort design ~700 cases with incident CHD within 5 years of baseline/700 random controls	08/01/11- 07/01/13	2147
327	Serum 25-hydroxyvitamin D and lung cancer risk in never-smoking, postmenopausal women	Neuhouser	Y	Complete	General population Cancer of Lung:300 Controls:300	01/01/13- 12/31/15	2294
325	Racial/ethnic differences in 25(OH)D and PTH levels and CVD among women	Song	N	Analysis	OS CHD:2050 Controls:2800	08/01/13- 04/30/18	2852, 3677, 3678
321	Gentoxic estrogen ratio: a novel estrogen biomarker and breast cancer risk	Reding	N	Complete	General population Breast Cancer - Invasive:481 Controls:481 *age-matched controls	09/01/13- 07/31/17	3266, 3267

Anc #	Title	Study PI	WHI PI	Status	Case controls	Study Dates	Approved Proposals and Published Manuscripts
316	Validation of promising breast cancer early detection biomarkers	Li	N	Analysis	OS Breast Cancer - Invasive:322 Controls:322*blood within 17 months of dx; exclude cases from BA05	11/01/10-07/31/15	1448, 1782, 1813, 3044
315	Epigenetic mechanisms of PM-mediated CVD risk	Whitsel	Y	Funded	CTControls:2200 *2,200 ppts from 6% CT subsample	08/06/12-04/30/19	1740, 2571, 2572, 2639, 2684, 2745, 2755, 2813, 2860, 2956, 3023, 3083, 3093, 3188, 3189, 3190, 3234, 3251, 3275, 3307, 3312, 3313, 3314, 3329, 3339, 3359, 3360, 3361, 3381, 3415, 3417, 3420, 3448, 3577, 3598, 3626, 3645, 3648, 3668, 3676, 3712, 3721, 3725, 3726, 3851, 3929, 3959, 4050, 4068, 4069, 4071, 4090, 4094, 4108, 4126, 4146, 4149, 4181, 4182, 4214, 4223, 4246, 4313, 4329, 4353, 4386, 4429, 4441, 4490, 4491, 4550, 4562, 4601, 4616
311	Global DNA methylation measured in prospectively collected blood samples and risk of bladder cancer among post-menopausal women	Bhatti	N	Analysis	General population Cancer of Bladder:453 Controls:453 *Specifically papillary transitional cell bladder cancer	07/01/13-06/30/18	2895, 3023, 3188, 3234, 3251, 3339, 3361, 3381, 3420, 3559, 3648, 3659, 3676, 3725, 3726, 4050, 4071, 4090, 4094, 4108, 4146, 4149, 4181, 4182, 4214, 4223, 4246, 4258, 4353, 4386, 4429, 4491, 4550, 4562, 4601
308	Heavy metals and renal cell cancer risk (Pilot study)	Wilson	N	Complete	General population Cancer of Kidney:361 Controls:722	01/01/11-03/31/11	
304	Vitamin D status and periodontal disease	Millen	Y	Complete	General population	05/05/10-04/30/12	1358, 1360, 1473, 1988, 2162, 2234, 2820, 3038
303	Saliva and serum inflammatory biomarkers in periodontitis: A study in older women	Wactawski-Wende	Y	Analysis	General population	09/22/09-08/31/11	1942
301	Expanded genome-wide association study of lymphoid malignancies and related disorders	Berndt	N	Analysis	General population Lymphoma, Non Hodgkins:1580 Lymphoma, Hodgkins:47 Multiple Myeloma:349 Controls:700 *Phase I: 1,365 (965 NHL cases/ 400 controls); Phase II: 1,311 (615 NHL cases, 349 MM cases, 47 HL cases, 300 controls)	09/15/10-09/19/17	1979, 1994, 2402, 2403, 2418, 2419, 2711, 2817, 3036, 3310, 3328, 3454, 3458, 3819, 4019, 4020, 4034

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297	Associations of estrogens, estrogen metabolites, and androgens with risks of endometrial and ovarian cancers in a prospective case-cohort study	Trabert	N	Analysis	OS Endometrial Cancer:430 Ovarian Cancer:240 Controls:540	09/15/10-09/14/11	2389, 2390, 2762, 2763, 2764, 2765, 2766, 2947, 3053, 3366, 3367, 3619, 3643, 3644, 3732, 3917, 3918, 4177, 4390
296	Cohort consortium study of etiology of hepatocellular carcinoma in the United States	McGlynn	N	Analysis	General population Cancer of Liver:121 Controls:242	09/24/10-09/23/11	2238, 2242, 2251, 3330, 3999, 4599
294	Investigation of one-carbon metabolism pathway and lung cancer with the cohort consortium	Johansson	N	Complete	General population Cancer of Lung:242 Controls:242	01/31/12-08/31/16	2026, 3217, 3320, 3484, 4346
292	Advanced glycation end products, the receptor, and colorectal cancer risk in WHI	Jiao	Y	Complete	OS Colorectal Cancer:425 Controls:791 *From AS129	09/01/11-08/31/14	1901
290	Cadmium exposure and risk of breast cancer in the WHI	Newcomb	Y	Analysis	General population Breast Cancer - Invasive:508 Controls:1000	09/01/11-05/31/15	1412, 1629, 2107, 2128, 3158, 3844
289	Pooling validation studies with recovery biomarkers	Kipnis	N	Analysis	DM	11/01/10-10/31/14	2278, 2388, 2604, 2605, 2795, 3497
287	Metabolic syndrome, lifestyle factors and risk of periodontitis in older women	LaMonte	N	Complete	OS	04/01/12-03/31/15	1870, 2179
286	OPACH: Objective physical activity and cardiovascular health in women aged 80 and older	LaCroix	Y	Complete	General population 8618 Ppts@11 clinics	09/01/11-04/30/17	2246, 2366, 2367, 2441, 2495, 2542, 2619, 2663, 2673, 2680, 2683, 2716, 2758, 2793, 2805, 2888, 2937, 2943, 2945, 2965, 2966, 2969, 3029, 3062, 3064, 3065, 3072, 3089, 3270, 3294, 3298, 3299, 3301, 3302, 3311, 3414, 3552, 3570, 3584, 3640, 3665, 3761, 3766, 3805, 3807, 3808, 3850, 3861, 3872, 3877, 3895, 3908, 3915, 4036, 4051, 4112, 4156, 4165, 4251, 4304, 4333, 4340, 4365, 4366, 4367, 4419, 4453, 4457, 4471, 4480, 4488, 4518, 4585, 4604, 4630
284	Obesity-related pathways and risk of benign proliferative breast disease	Rohan	Y	Complete	CT Benign Breast Disease:700 Controls:1400	10/01/12-09/30/14	2125, 3202
282	Evaluation of serum markers for use in multi-stage ovarian cancer screening	Urban	Y	Complete	General population Ovarian Cancer:183 Controls:732	08/16/10-08/31/16	381, 1504, 2975, 4053

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275	Urinary levels of melatonin and risk of breast cancer	Sturgeon	N	Analysis	OS Breast Cancer - Invasive:260 Controls:519	08/01/10-05/31/13	1443, 2690, 2896, 2971, 2972
272	WHI nutrition and physical activity assessment study (NPAAS)	Neuhouser	Y	Complete	General population 154 Ppts@CCC-RC	07/01/10-02/29/16	1273, 2278, 2304, 2388, 3238, 3241, 3603, 3607, 3695, 3912, 3913, 4309, 4388, 4489, 4609, 4660
271	Omega-3 and omega-6 fatty acids as a biomarker of hip fracture risk	Jackson	Y	Analysis	General population Fracture - Hip:400 Controls:400 *half BMD, half non-BMD	08/01/09-07/31/10	1292, 1293, 2607
266	Serum levels of EGFR-signaling-network activators/inhibitor and risk of lung cancer	Ho	Y	Complete	General population Cancer of Lung:1384 Controls:1601 *1:2 matching for never smokers, 1:1 matching for former/current smokers; 321 CT control ppts; 500 cases from BA06	09/01/10-08/31/15	1774, 2360, 2432, 2814, 3202
264	Modification of PM-mediated arrhythmogenesis in populations (MOPMAP)	Whitsel	Y	Analysis	General population Controls:3094 *5 geographical locations; ppts with ECG readings	08/01/10-05/31/15	1009, 1157, 1160, 1174, 1199, 1299, 1633, 1740, 2078, 2466, 2467, 2468, 2510, 3020, 3059, 3083, 3086, 3222, 3227, 3342, 3580, 3670, 3712, 3914, 3994, 4068, 4069, 4126, 4313, 4355, 4490
263	Gene-hormone therapy interaction and the risk of breast cancer	Sun	N	Funded	General population Breast Cancer - Invasive:2690 Controls:1800 *583 E+P and 307 E-alone cases for GWAS; 1800 OS case/control pairs for sequencing	03/01/11-02/28/15	1621
262	Women's Health Initiative memory study of younger women (WHIMS-Y)	Rapp	N	Analysis	HT 1373 Ppts@43 clinics	10/01/08-11/03/16	1613, 1887, 2043, 2779, 2891, 2969, 3373, 4054, 4105, 4396
257	Nutritional and genetic risk factors for age-related macular degeneration	Mares	Y	Analysis	OS Eye:361 Controls:1426 *PI has a list of participants from AS105-CAREDS	12/01/10-11/30/13	1574, 1615, 1634, 2252, 2547, 3614
254	Telomere and its biochemical and genetic regulators as predictors for clinical diabetes in women diabetes in women	Liu	Y	Complete	OS Type 2 Diabetes:1800 Controls:2620	06/01/09-05/31/12	1224, 1604, 1620, 1650, 1673, 1913, 2029, 2072, 3170, 3357, 3358, 3490, 3535, 3550, 3669, 3722, 3853, 3926

Anc #	Title	Study PI	WHI PI	Status	Case controls	Study Dates	Approved Proposals and Published Manuscripts
252	Environmental determinants of cognitive aging in WHIMS	Chen	N	Funded	HT Controls:10279 *WHIMS & WHIMS-Y participants	07/01/08-07/31/21	1426, 1914, 2249, 2345, 2349, 2431, 2478, 2549, 2557, 2865, 3369, 3370, 3371, 3511, 3514, 3532, 3533, 3600, 3788, 3883, 3907, 4054, 4068, 4069, 4084, 4126, 4160, 4183, 4257, 4350, 4428, 4470
251	Acute cardiovascular disease & air pollution in WHI-Phase I	Wellenius	N	Funded	General population	07/01/12-03/31/19	2369, 2370, 2685, 2760, 2835, 3081, 3396, 3712, 4068, 4069, 4126, 4313
250	Genetic contributions to cognitive decline in normal and pathological aging in older post-menopausal women and modification by hormone therapy	Driscoll	N	Analysis	HT Controls:7479 *Phase 1: 2,266 WHISCA; Phase 2: 719 WHIMS. Phase 3 not yet funded for remaining 4,500 WHIMS	03/01/09-09/03/10	1556, 1714, 1715, 2153, 2345, 2865
244	Women's Health Initiative memory study epidemiology of cognitive health (WHIMS-ECHO)	Rapp	N	Funded	HT	08/01/08-11/03/21	1748, 1781, 2729, 2779, 2927, 2928, 2929, 2969, 3318, 3353, 3373, 3699, 3718, 3759, 4067, 4161, 4272, 4316, 4340, 4393, 4396, 4444, 4496, 4554, 4555, 4587
242	DNA repair, telomere length and cutaneous malignant melanoma risk	Han	N	Complete	OS Melanoma - Skin:259 Controls:259 *Malignant melanoma	05/01/08-04/30/11	1163
238	Biochemical predictors of type 2 diabetes mellitus in women	Liu	Y	Complete	OS Type 2 Diabetes:700 Controls:1400 *Only minorities from AS132	03/01/10-05/31/12	1452, 1620, 1650, 1673, 1764, 2029, 2072, 2142, 2360, 2447, 2742, 3170, 3357, 3358, 3372, 3550, 3669, 3722, 3853, 3926, 4211, 4327
236	Choline/betaine habitual intake and chronic disease endpoints	Siege-Riz	N	Complete	General population	10/01/07-09/01/08	1294, 1398, 3816
235	Pilot study to explore assoc between task performance on fMRI w/ cog functioning and vascular, genetic & inflam. risk factors in WHISCA ppt characterized by differing body weight & waist-hip ratios	Kerwin	N	Complete	CT	11/01/06-06/30/09	
233	WHIMS (AS39) extension (See AS244)	Shumaker	Y	Analysis	HT 3074 Ppts@32 clinics	12/31/03-07/31/08	2176, 2281, 2283, 2433, 2549, 3318, 3353, 3373, 3705, 3718, 3772, 4067, 4161, 4272, 4279, 4396, 4444, 4554, 4555, 4587

Anc #	Title	Study PI	WHI PI	Status	Case controls	Study Dates	Approved Proposals and Published Manuscripts
226	Ambient air pollution and sleep disturbance in postmenopausal women	Chen	N	Analysis	General population	09/01/07-08/31/12	670, 844, 1307, 1308, 1309, 4126
224	GWAS for nonsynonymous SNPs in colon cancer (GECCO)	Peters	Y	Funded	General population Colon cancer:1309 Controls:1309 * Stage 1: GWAS 556 cases/69 controls, Caucasian only; Stage 2: GWAS 1309/1309 cases/controls; Stage 3: 7600 SNPs	07/02/07-08/31/19	962, 1059, 1060, 1557, 1566, 1567, 1568, 1569, 1570, 1571, 1572, 1582, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1768, 1769, 1770, 1771, 1797, 1798, 1799, 1800, 1806, 1827, 1828, 1844, 1909, 1918, 1919, 1920, 1921, 1931, 1967, 1968, 1969, 1997, 2035, 2036, 2037, 2042, 2056, 2057, 2058, 2059, 2061, 2082, 2093, 2109, 2137, 2164, 2165, 2166, 2167, 2169, 2170, 2171, 2172, 2173, 2176, 2253, 2254, 2255, 2256, 2257, 2258, 2266, 2267, 2268, 2269, 2270, 2295, 2296, 2297, 2298, 2299, 2300, 2310, 2324, 2327, 2336, 2372, 2373, 2375, 2376, 2408, 2425, 2429, 2430, 2433, 2449, 2450, 2451, 2452, 2453, 2454, 2481, 2486, 2492, 2494, 2509, 2510, 2525, 2529, 2531, 2535, 2537, 2538, 2539, 2540, 2545, 2563, 2564, 2565, 2566, 2567, 2602, 2633, 2699, 2700, 2701, 2710, 2767, 2768, 2769, 2770, 2788, 2790, 2815, 2854, 2871, 2872, 2873, 2874, 2875, 2876, 2877, 2878, 2879, 2894, 2900, 2920, 2938, 2941, 2957, 2958, 2959, 3009, 3010, 3011, 3012, 3013, 3014, 3015, 3016, 3017, 3018, 3019, 3020, 3025, 3026, 3027, 3052, 3059, 3086, 3111, 3112, 3113, 3114, 3141, 3175, 3176, 3201, 3218, 3223, 3274, 3296, 3324, 3332, 3337, 3342, 3348, 3349, 3350, 3351, 3352, 3374, 3375, 3376, 3377, 3378, 3379, 3380, 3386, 3387, 3401,

Anc #	Title	Study PI	WHI PI	Status	Case controls	Study Dates	Approved Proposals and Published Manuscripts
							3403, 3406, 3410, 3424, 3522, 3523, 3524, 3525, 3580, 3601, 3670, 3682, 3691, 3693, 3737, 3738, 3739, 3740, 3741, 3742, 3743, 3744, 3745, 3746, 3747, 3748, 3749, 3750, 3751, 3752, 3754, 3755, 3756, 3820, 3821, 3822, 3823, 3824, 3825, 3826, 3827, 3828, 3829, 3830, 3831, 3832, 3833, 3834, 3835, 3836, 3837, 3838, 3839, 3840, 3843, 3855, 3887, 3901, 3914, 3930, 3931, 3932, 3933, 3934, 3935, 3936, 3737, 3941, 3987, 3994, 3996, 4007, 4008, 4009, 4010, 4011, 4012, 4030, 4077, 4131, 4145, 4235, 4236, 4237, 4238, 4239, 4240, 4241, 4265, 4310, 4371, 4393, 4396, 4444, 4496, 4554, 4555, 4587
223	Women's Health Initiative cancer survivor cohort: biological, psychosocial, and behavioral predictors of survival: pilot study	Paskett	Y	Analysis	General population 310 Ppts@Columbus	10/01/05-10/31/19	1394, 2276, 2277, 2617, 2752
220	Neighborhoods, women, and coronary heart disease: a prospective study	Bird	N	Complete	General population	07/01/07-04/30/12	703, 704, 726, 824, 854, 1088, 1093, 1096, 1149, 1159, 1464, 1696, 1803, 3532, 3533, 3712, 3804, 4068, 4069, 4313, 4453, 4541, 4604
219	Diet and eye health in the WHI: end of trial study: pilot study	Mares	Y	Complete	DM 400 Ppts@Madison	01/01/06-12/31/06	577, 3614
218	WHI nutrition and physical activity assessment study (NPAAS)	Neuhouser	Y	Complete	OS 450 Ppts@9 clinics	07/12/06-06/30/10	1178, 1273, 1385, 1532, 2106, 2278, 2388, 2439, 3119, 3241, 3335, 4243, 4359, 4489, 4566, 4609, 4660
217	Validation of the self-report of rheumatoid arthritis and systemic lupus erythematosus: The Women's Health Initiative	Walitt	Y	Complete	CT	07/01/04-06/30/06	635
216	Decision-making about cancer screening among older women	Messina	Y	Analysis	General population 1300 Ppts@Stonybrook	07/01/06-06/30/09	



Anc #	Title	Study PI	WHI PI	Status	Case controls	Study Dates	Approved Proposals and Published Manuscripts
214	Prospective cohort collaborative in pancreatic cancer epidemiology and pathogenesis (AS146 extension)	Fuchs	N	Analysis	OS Pancreatic Cancer:209 Controls:418 *Assays done on those missing in AS146; Pilot: 40 AV3 samples from controls	09/01/07-08/31/15	930, 936, 1075, 1175, 1182, 1405, 1406, 1407, 1408, 1837, 1974, 2432, 2637, 2642, 3604, 3605, 3799, 4219
208	Pro and anti-inflammatory cytokines and colorectal cancer	Ho	Y	Complete	OS Colorectal Cancer:500 Controls:900 *same cases/controls as AS129	04/25/08-03/31/12	1612
207	IGF and multiple myeloma	Colditz	N	Analysis	General population Multiple Myeloma:197 Controls:394	08/01/07-05/31/11	1164, 1165, 1833, 2432
206	Genetic variation in selenoenzymes and colorectal cancer	Peters	Y	Complete	OS Colorectal Cancer:805 Controls:805 *Same cases/controls as AS195; controls include 100 Y3 samples	07/01/06-06/05/15	814, 815, 828, 1026, 1557, 2211
197	Validity of self-reported diabetes mellitus in the WHI	Margolis	Y	Complete	CT 738 Ppts@4 clinics	07/01/07-02/28/11	1100, 1217
196	Heart failure evaluation in post-menopausal women: the WHI study	Klein	N	Complete	HT	09/30/07-08/31/10	364, 935, 1177
195	Candidate pathways in colorectal carcinogenesis: one-carbon metabolism and inflammation	Ulrich	N	Analysis	OS Colorectal Cancer:988 Controls:988 *Same cases/controls as AS206 where possible	05/01/08-01/31/14	530, 1181, 1226, 1227, 1377, 1561, 1652, 1654, 1734, 1735, 1951, 2062, 2138, 2211, 2214, 2325, 2396, 3897, 4632
192	Estrogen and progesterone-related genes and colorectal cancer risk	Zhang	Y	Complete	OS Colorectal Cancer:644 Controls:1288 *Requests 10% blind duplicates (96 pairs)	09/01/06-07/31/12	1126, 1507
191	Biomarkers and genetic factors related to sarcopenia in older women (includes AS199)	Chen	Y	Analysis	OS Sarcopenia:2800 *2800 for DNA, subset of 1400 for EDTA	09/15/07-06/30/15	1531, 1841, 1877, 1878, 2360, 2432, 2749, 4354, 4397, 4398
189	Biochemical and anthropometric heterogeneity among morbid obese women in the Women's Health Initiative observational study	Mackey	Y	Analysis	OS CHD:144 Controls:1172	05/01/06-04/30/11	698, 699, 1700, 2360, 3202
187	Serum fatty acids and incidence of ischemic stroke in women	Kahe	N	Complete	OS Stroke:971 Controls:971 *shares cases and controls with AS126	04/01/08-03/31/12	944, 1493, 1873, 2607

Anc #	Title	Study PI	WHI PI	Status	Case controls	Study Dates	Approved Proposals and Published Manuscripts
183	Effects of hormone therapy on subclinical neurological pathology: WHIMS-MRI	Shumaker	Y	Analysis	HT E+P	05/01/04- 06/30/11	542, 625, 626, 680, 683, 696, 727, 794, 883, 937, 979, 1047, 1058, 1115, 1150, 1267, 1414, 1426, 1498, 1518, 1525, 1526, 1631, 2428, 2544, 2582, 2836, 3085, 3258, 3369, 3370, 3371, 4161, 4318, 4379, 4396, 4586
181	Estradiol, cytokines, and bone turnover: effects on hip fracture	Cauley	Y	Complete	OS Fracture - Hip:400 Controls:400 *same as AS90	07/01/05- 06/30/10	634, 681, 714, 878, 910
179	Frailty in WHI: drugs, inflammatory and genetic markers	LaCroix	Y	Complete	OS Frailty-disability:900 Controls:900	09/15/05- 07/31/10	301, 302, 303, 662, 831, 2432
178	Mammographic density and invasive breast cancer	Pisano	N	Complete	CT 793 Ppts@34 clinics Breast Cancer:	03/12/04- 08/31/08	640
177	Relative risk differences between FFQs and food records	Subar	N	Complete	DM	09/30/03- 09/30/04	
171	Analysis of heart rate variability from ultra-short records: the WHI study	Michael	Y	Complete	CT	01/01/03- 06/01/03	
167	Sex hormones, risk factors, and risk of ER+ and ER- breast cancer	Cummings	Y	Complete	OS Breast Cancer:311 Controls:592	01/01/05- 05/30/08	622, 1173, 1218, 2447, 3231, 3372, 3891, 4211
165	Subclinical thyroid dysfunction and risk of myocardial infarction and stroke	Lorenz	N	Complete	OS CHD:800 Stroke:591 Controls:3136	09/01/04- 07/31/09	402, 403, 1836
163	Hormone use following the WHI E+P trial termination: a pilot study	Hays	Y	Complete	HT E+P	01/01/03- 12/01/04	
160	An assessment of symptoms and symptom self-management for women abruptly stopping hormone replacement study pills	Valanis	Y	Complete	HT E+P	07/01/02- 08/17/02	
153	Longitudinal changes in hip geometry and skeletal muscle	Chen	Y	Analysis	OS 47 Ppts@Tucson Fracture - Hip:	08/15/03- 06/30/10	340, 456, 487, 488, 489, 547, 548, 562, 566, 569, 633, 658, 687, 690, 691, 711, 712, 812, 888, 897, 960, 964, 969, 970, 1522

<b>Anc #</b>	<b>Title</b>	<b>Study PI</b>	<b>WHI PI</b>	<b>Status</b>	<b>Case controls</b>	<b>Study Dates</b>	<b>Approved Proposals and Published Manuscripts</b>
152	Growth factor genes and female breast, colorectal, and endometrial cancers	Ho	Y	Complete	OS Breast Cancer:900 Colorectal Cancer:500 Endometrial Cancer:300 Controls:900 *Same as AS129	08/01/03-07/31/08	559, 689, 776, 789, 790, 791, 1507, 2679, 3146
150	Effect of airborne particulate matter and other air pollutants on the incidence of cardiovascular events in the WHI observational study	Kaufman	N	Analysis	General population CHD:	05/01/02-12/31/12	363, 725, 1159, 1321, 1494, 1495, 3532, 3533, 3810, 4126
146	A prospective study of pancreatic cancer pathogenesis	Fuchs	N	Complete	OS Pancreatic Cancer:104 Controls:312	03/01/03-12/31/04	482, 483, 484, 576, 3202
141	Periodontal disease and subclinical cardiovascular disease in post-menopausal women	Dorn	N	Complete	OS	06/01/01-03/16/05	
140	Air pollution and electrocardiographic abnormalities (environmental epidemiology of arrhythmogenesis in WHI)	Whitsel	Y	Analysis	CT	09/01/03-05/31/10	388, 389, 411, 415, 430, 528, 529, 608, 609, 710, 850, 854, 1159, 1232, 1464, 2685, 3396, 3532, 3533, 3712, 4068, 4069, 4126, 4313, 4490
139	Follow-up of healthy breast cancer survivors in the WHI observational study	Paskett	Y	Complete	OS	02/01/02-01/31/03	
137	Postmenopause CHD risk: platelet genes and hormone therapy	Bray	N	Complete	OS CHD:1060 Controls:2120	10/01/03-08/31/07	593
135	Natural history of pelvic organ prolapse in WHI women	Nygaard	N	Complete	HT	02/01/02-06/30/07	317, 323, 331, 495, 592
134	Serum estrogen hormone metabolites, hormone replacement therapy and the risk of breast cancer	Modugno	N	Complete	OS Breast Cancer:200 Controls:200	07/01/02-05/31/04	209
133	Biochemical and genetic predictors of incident hypertension in white and black women	Sesso	Y	Complete	OS Hypertension:800 Controls:800	08/01/04-07/31/10	654, 655, 1184, 2432, 4354
132	A prospective study of genetic and biochemical predictors of type 2 diabetes mellitus	Liu	Y	Complete	OS Type 2 Diabetes:1800 Controls:2500	08/01/02-07/31/10	369, 376, 486, 550, 554, 555, 572, 573, 582, 594, 660, 664, 668, 688, 709, 719, 1024, 1050, 1148, 1738, 2072, 2432, 2742, 3170, 3202, 3357, 3358, 3550, 3669, 3722, 3926, 3998, 4003, 4354

Anc #	Title	Study PI	WHI PI	Status	Case controls	Study Dates	Approved Proposals and Published Manuscripts
130	Randomized controlled trial of fat reduction, calcium/Vitamin D supplementation, hormone replacement therapy, and risk of proliferative forms of benign breast disease	Rohan	Y	Complete	CT 3901 Ppts@49 clinics Benign Breast Disease: Controls:	07/01/01- 07/31/08	508, 509, 544, 584, 585, 586, 587, 3684, 3985
129	Association of diabetes and insulin-like growth factor-I (IGF-I) with risks of colorectal, breast, and endometrial cancer	Strickler	N	Analysis	OS Breast Cancer:900 Colorectal Cancer:500 Endometrial Cancer:300 Controls:900 *same as AS152	01/15/02- 04/30/11	459, 460, 461, 959, 1061, 1173, 1586, 1614, 1891, 1901, 2679, 2742, 3146, 3809
127	CHD risk perception study	Barnhart	N	Complete	OS	05/15/02- 04/30/07	659
126	Stroke risk factors and molecular markers in postmenopausal women	Smoller	Y	Complete	OS Stroke:972 Controls:972	08/01/03- 07/31/06	601, 602, 603, 672, 679, 829, 869, 872, 893, 944, 1061, 1223, 1411, 1738, 1869, 2112, 2432, 2635, 3708, 4354
124	Sociocultural influences on motivation for and maintenance of health-related dietary change among women	Namie	N	Complete	DM	06/01/00- 12/01/00	
122	Feasibility study of computerized tailored dietary feedback	Glanz	N	Complete	DM	03/10/00- 09/01/00	
121	Hyperinsulinemia and ovarian cancer	Modugno	N	Complete	OS Ovarian Cancer:225 Controls:225 *originally a subset of AS97	09/01/02- 08/31/04	383, 3202, 3163
118	Accuracy of food portion estimation among postmenopausal women	Coy	N	Complete	DM	12/01/99- 04/01/00	312
117	Risk factors for dry eye syndrome in postmenopausal women	Nichols	N	Complete	OS 217 Ppts@Columbus	02/01/01- 04/30/12	
113	Some aspects of Mediterranean diet in relation to risk of chronic diseases among postmenopausal women	Hakim	N	Complete	OS	02/01/98- 01/31/04	
111	Glycemic index/glycemic load and blood lipids in the WHI	Shikany	Y	Complete	General population	07/01/03- 06/30/05	172, 385, 463, 574
110	Sex steroid hormones and risk of coronary heart disease: a nested case control study	Rexrode	Y	Analysis	OS CHD:385 Controls:385 *79 matched cases-controls and 92 cases (but not controls) overlap with AS83.	09/15/00- 07/31/03	159, 160, 266, 305, 1218, 1436, 2447, 2828, 3231, 3372, 4211, 4327
108	Gene-environment effects and colorectal cancer	Lin	N	Complete	OS Colorectal Cancer:50 Controls:150	09/30/96- 07/31/06	507, 610

Anc #	Title	Study PI	WHI PI	Status	Case controls	Study Dates	Approved Proposals and Published Manuscripts
105	Carotenoids in age-related eye disease study (CAREDS)	Mares	Y	Complete	OS 2007 Ppts@4 clinics Eye:1000 Controls:1000	06/01/00-08/31/10	185, 307, 308, 309, 310, 311, 371, 444, 452, 498, 835, 903, 904, 915, 950, 1328, 1381, 2252, 3614
104	Tamoxifen prevention: Is it acceptable to women at risk?	Melnikow	N	Complete	OS	04/01/00-03/31/03	
103	Effects of hormone replacement therapy on cognitive aging (WHISCA)	Shumaker	Y	Analysis	HT 2266 Ppts@15 clinics	04/01/99-06/30/10	216, 237, 325, 579, 598, 695, 899, 914, 980, 1038, 1121, 1229, 1259, 1267, 1415, 1746, 3656, 4054, 4272, 4317, 4396, 4586, 4664
102	Quality of life improvements and willingness to pay: an investigation of selective estrogen receptor modulators	Fouad	Y	Complete	OS	09/01/98-10/01/98	
100	Genetic, biochemical and behavioral determinants of obesity	Chang	N	Analysis	OS 797 Ppts@3 clinics	01/01/99-04/30/04	2060, 2237, 2264, 2379, 2801, 2904, 2985, 4024
99	Genetics of non-insulin dependent diabetes (GENNID)	Chlebowski	Y	Complete	General population	12/01/98-03/31/00	
98	Bone mineral density as a predictor for periodontitis	Wactawski-Wende	Y	Complete	OS 969 Ppts@Buffalo	04/01/02-03/31/06	271, 326, 527, 632, 652, 813, 928, 1162, 1641, 1912, 2100, 2162, 2179, 2234, 2598, 2678, 2820, 2530, 3063, 3252, 3265, 3295, 3534, 3664, 3700
97	Modeling serum markers for cost-effective ovarian cancer screening	Anderson	Y	Analysis	OS Ovarian Cancer:280 Controls:558	09/30/01-06/30/09	381, 1504, 2975
95	Work organization, psychological distress, and health among minority older women	Rodriguez	Y	Complete	OS	12/01/97-12/01/97	
93	The epidemiology of venous disease	Criqui	Y	Complete	OS	09/01/95-07/31/00	
90	WHI sex hormone and genetic risk factors for hip fracture	Cummings	Y	Complete	OS Fracture - Hip:400 Controls:400 *same as AS181	09/24/03-03/31/06	479, 480, 481, 543, 563, 1218, 2447, 3372, 4211, 4327
86	A pilot study to determine the sensitivity of form 39 to impaired executive control function (ECF) as measured by the CLOX: an executive clock-drawing task	Polk	N	Complete	HT		
84	Cognitive change in women	Dunn	Y	Complete	General population 546 Ppts@2 clinics	09/01/01-02/28/10	49, 421, 539, 588, 600, 616, 621, 940, 1147

Anc #	Title	Study PI	WHI PI	Status	Case controls	Study Dates	Approved Proposals and Published Manuscripts
83	Thrombotic, inflammatory and genetic markers for coronary heart disease in postmenopausal women: a WHI umbrella study	Ridker	N	Complete	OS CHD:650 Controls:650	09/01/99-08/31/03	128, 129, 2432, 2828, 3202, 4354
82	Extension of bone mineral density assessment in WHI Native American women	Chen	Y	Complete	OS	07/01/97-06/30/01	
78	Community strategy to retain women enrolled in research	Fouad	Y	Complete	CT	09/30/96-07/31/02	
76	Tailored messages to enhance adherence of older women to dietary programs for breast cancer control	Chlebowski	Y	Complete	DM	09/01/97-08/13/98	
75	Adherence to dietary modification in the WHI	Rosal	Y	Complete	DM	09/30/97-08/30/02	117, 126, 193, 267
74	The effectiveness of individual versus group behavioral strategies to increase participants adherence	Wodarski	N	Complete	DM	07/01/97-09/30/97	
73	Psychosocial and cultural determinants of NIDDM in Latinas	Ritenbaugh	Y	Complete	OS	05/01/97-04/30/98	
70	The prevalence and prognostic importance of myocardial ischemia during daily life, and its relationship to migraine status: WHI	Sheps	Y	Complete	OS	09/01/97-08/31/00	171, 183, 184, 281, 716
68	Coronary artery calcification detected with ultrafast CT as an indication of CAD in OS participants	Hsia	Y	Complete	OS 735 Ppts@2 clinics	01/01/97-12/31/05	
65	Benign breast disease	Rohan	Y	Complete	DM 101 Ppts@12 clinics	07/22/98-04/30/00	
63	Development and evaluation of eating style index	Haines	N	Complete	OS	10/01/96-06/30/99	
62	Prevention of age-related maculopathy in the WHI HRT CT: WHISE	Haan	Y	Complete	HT 4430 Ppts@21 clinics	01/01/99-01/01/07	262, 261, 260, 259, 258, 257, 256, 255, 254, 253, 252, 251, 476, 819, 820, 1150, 1843, 3085, 3614, 3718
61	Longitudinal assessment of memory functioning in the WHI clinical trial	Ober	N	Complete	HT	09/01/96-08/31/09	2235
60	Fat intake in husbands of WHI dietary arm participants	Shikany	Y	Complete	DM	12/01/96-12/01/96	
57	Hispanic women's advocacy and retention strategies	Ritenbaugh	Y	Complete	OS	09/01/96-08/31/98	
56	Behavioral and psychosocial predictors of dietary change in postmenopausal women	Pleuss	Y	Complete	DM	09/01/96-08/31/98	

Anc #	Title	Study PI	WHI PI	Status	Case controls	Study Dates	Approved Proposals and Published Manuscripts
50	Nutrition practice guidelines for maintaining low-fat dietary change in postmenopausal women	Burrows	Y	Complete	DM	10/01/96-09/30/97	
48	Prostate cancer survey of spouses of WHI screened women	Smoller	Y	Complete	General population	02/01/96-06/30/96	
47	Effect of diet intervention on motivation to make other health-related changes	Langer	Y	Complete	DM	05/01/96-04/30/97	
40	Ethnic and age differences in use of mammography	Smoller	Y	Complete	OS		
39	The effects of HRT on the development and progression of dementia (WHIMS)	Shumaker	Y	Complete	HT 7528 Ppts@48 clinics	05/31/96-05/30/05	60, 124, 136, 138, 173, 225, 226, 274, 276, 332, 336, 360, 370, 390, 397, 399, 427, 430, 546, 558, 595, 597, 639, 665, 670, 683, 727, 750, 881, 883, 884, 919, 1038, 1042, 1053, 1095, 1121, 1149, 1150, 1156, 1260, 1267, 1295, 1354, 1384, 1426, 1558, 2074, 2075, 2174, 2181, 2183, 2208, 2219, 2281, 2283, 2461, 2463, 2549, 2729, 2850, 2851, 2869, 3005, 3051, 3085, 3232, 3300, 3318, 3353, 3369, 3370, 3371, 3373, 3411, 3467, 3536, 3565, 3566, 3585, 3656, 3699, 3714, 3718, 3759, 3772, 3852, 3904, 3906, 4054, 4067, 4161, 4181, 4182, 4272, 4316, 4317, 4318, 4396, 4444, 4496, 4554, 4555, 4587, 4664
36	HRT and changes in mammographic density	Hulka	Y	Complete	HT 857 Ppts@19 clinics Breast Cancer:	01/02/98-12/31/01	133, 285, 358, 694, 1447
34	Ethnic differences in hip bone geometry by DXA and QCT	Nelson	N	Complete	HT 311 Ppts@Detroit	01/16/97-11/30/00	
33	The association of HRT with abdominal and total body fat in postmenopausal women	Mayo	N	Complete	OS	07/31/95-03/31/96	
31	Eye care use	Kleinstei	N	Complete	OS		
25	Ankle-arm blood pressure index measurement	Masaki	Y	Complete	OS	02/01/96-01/01/98	
24	Cross-ethnic comparisons of skeletal health of postmenopausal women in San Diego county	Schneider	N	Complete	OS	01/03/95-01/02/97	

Anc #	Title	Study PI	WHI PI	Status	Case controls	Study Dates	Approved Proposals and Published Manuscripts
17	Domestic violence in older women	Mouton	Y	Complete	OS	10/25/94-10/24/96	
15	The relationship between osteopenia and periodontitis	Wactawski-Wende	Y	Complete	OS 1468 Ppts@Buffalo	09/16/96-09/15/01	552, 553, 1809, 1810, 1811, 1846, 1847, 1849, 3252, 3265, 3295, 3534, 3664, 3681, 4633
14	High density lipoprotein metabolism	Going	Y	Complete	OS	07/01/94-06/30/96	
13	Prevalence and correlates of lumbar spinal stenosis	Vogt	N	Complete	CT		
11	Validation and exploration of sleep and mood predictors	Kripke	N	Complete	OS	08/01/95-07/31/99	43, 749, 1113, 1205, 1206, 1207, 1208, 1209, 1210, 1437
9	Oral bone loss	Jeffcoat	N	Complete	OS 450 Ppts@Birmingham	05/25/95-11/28/04	72
5	Explanations for the development of fat distaste	Green	N	Complete	DM	04/05/95-03/31/97	
M26	The colorectal cancer sequencing project (Phase II/III)/Whole exome sequencing for colorectal cancer (Phase I)	Peters	Y	Funded	General population Colorectal Cancer:3000 Controls:2600 *Caucasians only	09/01/12-08/31/19	1997, 2253, 2254, 2267, 2298, 2815, 2938, 2941, 3049
M25	GWAS of chronic periodontitis	Wactawski-Wende	Y	Analysis	OS	09/30/09-09/29/11	
M24	WHI Sequencing Project (WHISP)	Jackson	Y	Analysis	General population MI:161 Type 2 Diabetes:165 Stroke:770 Controls:1865 *Phase I: BMI/T2D, early MI. Phase II: Stroke, Hypertension, Deeply Phenotyped Reference Group (DPR); Phase III: extra BMI and Stroke; Replication: 8950 samples (stroke+controls 3000; EOMI+Controls 5000; BP hi/lo 950 )	09/30/09-03/31/13	1458, 1501, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551, 1679, 1680, 1681, 1682, 1709, 1736, 1802, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1825, 1826, 1829, 1848, 1863, 1875, 1919, 1920, 1921, 1924, 1938, 1954, 1958, 1996, 2011, 2016, 2020, 2021, 2027, 2031, 2035, 2036, 2037, 2042, 2050, 2066, 2103, 2109, 2119, 2160, 2161, 2176, 2177, 2191, 2192, 2213, 2236, 2243, 2286, 2289, 2300, 2310, 2332, 2339, 2398, 2425, 2481, 2486, 2509, 2518, 2529, 2531, 2595, 2611, 2618, 2629, 2633, 2643, 2808, 2856, 2894, 2900, 2906, 2920, 2957, 2958, 2959, 2979, 2980, 3052, 3086, 3088, 3218, 3296, 3424, 3691, 3692, 3693, 3694, 3855, 3996



Anc #	Title	Study PI	WHI PI	Status	Case controls	Study Dates	Approved Proposals and Published Manuscripts
M18	Breast cancer post GWAS	Lindstroem	N	Analysis	General population Breast Cancer:5766 Controls:5437 *Caucasians from W21, BA2, and M6	07/01/10-06/30/15	2045, 2046, 2047, 2725, 2757, 3054, 3055, 3779, 3914, 4000, 4153, 4355
M16	International Stroke Genetics Consortium	Smoller	Y	Complete	OS Stroke:844 *dbGaP eligible cases from AS126	07/01/11-06/30/13	1864, 1865, 1866, 1867, 1868, 1869, 2112, 2641, 3355
M13	GWAS of hormone treatment and CVD and metabolic outcomes in WHI	Reiner	Y	Complete	HT/OS CHD:520 Type 2 Diabetes:1080Stroke:351 VTE:313Controls:2805 *Controls #s include 174 case/control pairs with multiple outcomes, 200 SHARE ppts	09/25/09-07/31/14	986, 1122, 1219, 1342, 1362, 1483, 1486, 1545, 1559, 1630, 1649, 1651, 1675, 1740, 1777, 1778, 1890, 1894, 1919, 1920, 1921, 1927, 1960, 1961, 1981, 1995, 2018, 2024, 2035, 2036, 2037, 2064, 2085, 2093, 2101, 2109, 2177, 2192, 2260, 2300, 2310, 2321, 2408, 2425, 2433, 2481, 2486, 2509, 2510, 2524, 2529, 2531, 2570, 2609, 2633, 2653, 2788, 2806, 2894, 2900, 2920, 2942, 2990, 3006, 3008, 3020, 3052, 3059, 3083, 3086, 3103, 3195, 3205, 3218, 3219, 3222, 3227, 3296, 3324, 3337, 3342, 3407, 3467, 3501, 3502, 3506, 3520, 3576, 3580, 3587, 3596, 3602, 3620, 3714, 3786, 3843, 3848, 3914, 3996, 4028, 4355
M12	Use of urinary sugars biomarker to assess measurement error structure of self-reported intake in NPAAS	Kipnis	N	Analysis	DM Controls:450 *450 NPAAS ppts	06/21/10-03/31/11	1273, 2176, 2462
M11	NCI - Upper GI cancer GWAS and telomere length evaluation (includes M10)	Taylor	N	Analysis	General population Cancer of Esophagus:28 Cancer of Stomach:145 Controls:346 *Esophagus cancer have only GWAS	09/15/10-09/14/11	1628, 3186
M9	NCI GWAS in renal cell carcinoma (RCC): expansion of a primary scan	Purdue	N	Analysis	General population Cancer of Kidney:299 Controls:298 *Non-Hispanic caucasians; 20 dbGaP ineligible ppts for Taqman only.	09/15/09-09/14/10	2631, 3327, 4111

Anc #	Title	Study PI	WHI PI	Status	Case controls	Study Dates	Approved Proposals and Published Manuscripts
M8	NCI GWAS in bladder cancer	Chanock	N	Analysis	General population Cancer of Bladder:420 Controls:420 *All non-hispanic Caucasians; 28 non-dbGaP cases only for Taqman	09/15/09-09/30/12	2152, 2189, 2811, 3045, 3046, 3047, 3048
M6	Population architecture using genomics and epidemiology (PAGE)	Kooperberg	Y	Analysis	General population Colorectal Cancer:1436 Endometrial Cancer:1103 CHD:4274 Type 2 Diabetes:4000 Stroke:3455 Ovarian Cancer:703 Cancer of Lung:1751 Melanoma - Skin:1102 Lymphoma, Non Hodgkins:843 Breast Cancer - Invasive:1961 Controls:16000 *~20,000 ppts (cases & controls) every year for 4 years (new set of outcomes each year)	07/28/08-05/31/14	1072, 1073, 1170, 1171, 1172, 1192, 1194, 1221, 1235, 1236, 1237, 1238, 1239, 1240, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1250, 1345, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1380, 1423, 1439, 1440, 1441, 1491, 1589, 1590, 1606, 1610, 1642, 1645, 1648, 1674, 1689, 1759, 1788, 1807, 1832, 1862, 1871, 1879, 1885, 1922, 1923, 1982, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2015, 2051, 2076, 2077, 2133, 2135, 2141, 2151, 2175, 2192, 2233, 2265, 2279, 2284, 2288, 2329, 2433, 2465, 2519, 2708, 2726, 2727, 2775, 2823, 2864, 2905, 4098, 4100, 4101, 4134, 4137, 4138, 4151, 4152, 4153, 4179, 4213, 4218, 4225, 4226, 4248, 4259, 4260, 4261, 4262, 4282, 4418 4433, 4434, 4435, 4477, 4492 4493, 4494, 4502, 4509, 4558 4561, 4571, 4573, 4580, 4597 4635, 4636, 4637, 4638, 4644 4648, 4669
M5	SHARe (SNP Health Association Resource) GWAS			Complete	General population Controls:12007 *Blacks, Hispanics who signed Supplemental Consent	01/01/08-12/31/09	981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 993, 994, 995, 996, 998, 999, 1001, 1002, 1003, 1006, 1007, 1008, 1009, 1010, 1013, 1015, 1016, 1018, 1019, 1020, 1024, 1050, 1089, 1092, 1108, 1112, 1119, 1122, 1145, 1157, 1160, 1167, 1174, 1176, 1180, 1199, 1200, 1204, 1219, 1256, 1258, 1268, 1286, 1299, 1313, 1314, 1316, 1356, 1370, 1401, 1416, 1423,

Anc #	Title	Study PI	WHI PI	Status	Case controls	Study Dates	Approved Proposals and Published Manuscripts
							1453, 1459, 1469, 1478, 1486, 1505, 1520, 1552, 1559, 1633, 1637, 1638, 1639, 1678, 1728, 1740, 1778, 1784, 1856, 1872, 1881, 1893, 1925, 1926, 1927, 1954, 2024, 2025, 2035, 2036, 2037, 2064, 2069, 2071, 2177, 2192, 2205, 2243, 2244, 2321, 2362, 2401, 2437, 2466, 2468, 2502, 2510, 2583, 2624, 2653, 2687, 2705, 2738, 2761, 2788, 2797, 2806, 2839, 2840, 2921, 2942, 2949, 2979, 2980, 3039, 3059, 3083, 3102, 3103, 3144, 3151, 3195, 3197, 3205, 3219, 3227, 3342, 3386, 3407, 3467, 3501, 3502, 3506, 3520, 3576, 3587, 3596, 3602, 3620, 3666, 3670, 3703, 3707, 3721, 3786, 3801, 3848, 3851, 3914, 3927, 3994, 4006, 4028, 4109, 4110, 4224, 4370, 4668
M4	Whole genome scan for pancreatic cancer risk in the pancreatic cancer cohort consortium (PANSCAN)	Stolzenberg-Solomon	N	Analysis	General population Pancreatic Cancer:838 Controls:600 *Phase I-III: 238 cases, also see 283 case/control pairs in W29; Phase IV: 600 case/control pairs	09/01/06-09/30/12	875, 930, 931, 932, 933, 934, 936, 1075, 1085, 1201, 1266, 1276, 1530, 1588, 1663, 1686, 1808, 1955, 2039, 2040, 2154, 2189, 2195, 2365, 2525, 2579, 2580, 2788, 2810, 2834, 2854, 2913, 2914, 2915, 3058, 3206, 3331, 3332, 3388, 3845, 3954, 3989, 4047, 4065, 4066, 4139, 4254, 4255, 4483, 4484, 4485, 4486, 4588, 4665
M3	NCI Cancer Genetic Markers of Susceptibility (CGEMS) Initiative: Replication Phase	Chanock	N	Complete	OS Breast Cancer:2956 Controls:2956 *Caucasians only	09/10/08-08/31/10	874, 906, 907, 908, 1104, 1109, 1814
M1	Diet and lifestyle factors reducing risk for age-related eye disease (AS105 extension)	Mares	Y	Complete	OS	09/01/07-08/31/10	1328, 3614