

2018 NIH Total budget (millions)		37,224	TOTAL FUNDING	\$41,555,862	% Female Reproductive Longevity Research - 2018	0.11%
Project Title	Administering IC	Project Number	Contact PI / Project Lead Organization Name	FY Total Cost	FY Total Cost (Sub Projects)	
Genetic Analysis of Germ Cell Immortality	NIGMS	5R01GM083048-08	AHMED, SHAWN CAMERUNIV OF NORTH CAROLINA	\$296,022		
Telomeres and Female Fecundity	NHLBI	5R01HL134840-02	AVIV, ABRAHAM RBHS-NEW JERSEY MEDICAL CENTER	\$647,544		
Epigenetic regulation of extreme longevity differences in ant castes	NIA	5R01AG055570-02	BERGER, SHELLEY L. UNIVERSITY OF PENNSYLVANIA	\$389,410		
Predictors of Early Menopause	NICHD	5R01HD078517-05	BERTONE-JOHNSON, ELIZABETH UNIVERSITY OF MASSACHUSETTS	\$655,991		
Predictors of Early Menopause	NICHD	3R01HD078517-04S1	BERTONE-JOHNSON, ELIZABETH UNIVERSITY OF MASSACHUSETTS	\$27,132		
Regulation of Sister-Chromatid Cohesion in Meiosis	NIGMS	5R01GM059354-16	BICKEL, SHARON ELIZABETH DARTMOUTH COLLEGE	\$365,312		
Variations in Hormones During Menopause: Effects on Cognitive and Brain Health	NIA	2R01AG028084-11	BIMONTE-NELSON, HEAT ARIZONA STATE UNIVERSITY	\$322,586		
Epigenetic Age as a Marker of Reproductive Age and Modifier of Invasive Cancer	NCI	1K07CA225856-01	BINDER, ALEXANDRA MA UNIVERSITY OF CALIFORNIA	\$158,546		
PROJECT 1 - Age-Related Changes in Gonadotropin Glycosylation and Fertility	NIA	5P01AG029531-07	BOUSFIELD, GEORGE R WICHITA STATE UNIVERSITY		\$315,928	
Project 3 - Brayboy	NIGMS	5P20GM121298-02	BRAYBOY, LYNAE M WOMEN AND INFANTS HOSPITAL-RHODE ISLAND		\$333,842	
Perimenopause in Brain Aging and Alzheimer's Disease	NIA	3P01AG026572-13S1	BRINTON, ROBERTA EILEEN UNIVERSITY OF ARIZONA	\$298,665		
T Cell-Mediated Regulation of Blood pressure in Postmenopausal Hypertension	NHLBI	5R01HL131834-02	BROOKS, HEDDOWEN L UNIVERSITY OF ARIZONA	\$383,750		
Study of Women's Health Across the Nation (SWAN) V: Coordinating Centers	NIA	5U01AG012553-24	BROOKS, MARIA MORI UNIVERSITY OF PITTSBURGH	\$2,087,239		
Misfolded-protein-centered multi-omics approach to unravel pre-eclampsia etiology	NICHD	5R01HD084628-04	BUHIMSCHI, IRINA A RESEARCH INST NATIONWIDELAND	\$482,654		
Bone Strength Through the Menopausal Transition: Trabecular Bone So	NIA	5R01AG025643-09	CAULEY, JANE ANN UNIVERSITY OF PITTSBURGH	\$356,467		
Longitudinal Evaluation of Ovarian Aging and Cardiovascular Risk	NIA	5R01AG053332-02	CEDARS, MARCELLE IVON UNIVERSITY OF CALIFORNIA	\$1,494,636		
Actions of Estrogen on Uterine Artery Endothelium	NHLBI	5R01HL070562-12	CHEN, DONGBAO UNIVERSITY OF CALIFORNIA	\$469,972		
Project 2 - Cheng	NIGMS	5P20GM121298-02	CHENG, SHIBIN WOMEN AND INFANTS HOSPITAL-RHODE ISLAND		\$314,479	
Mitochondrial RNA defense pathways in the oocyte	NICHD	1R01HD094545-01A1	CHRISTENSON, LANE K. UNIVERSITY OF KANSAS MEDICAL CENTER	\$360,991		
Hippocampal arteriole remodeling and brain injury in pre-eclampsia etiology	NICHD	1R01NS108455-01	CIPOLLA, MARILYN J UNIVERSITY OF VERMONT	\$390,000		
The epigenetic signature in women with pelvic organ prolapse	NICHD	5R21HD089555-02	CONNELL, KATHLEEN ANN UNIVERSITY OF COLORADO	\$165,219		
Project 1: Oocyte Developmental Competence and Aging	NICHD	2P50HD055764-11	CONTI, MARCO UNIVERSITY OF CALIFORNIA, SAN FRANCISCO		\$385,045	
Project 2 - Role of Glycosylation in FSH Signaling in FSH Target Cells	NIA	5P01AG029531-07	DAVIS, JOHN S WICHITA STATE UNIVERSITY		\$346,907	
Study of Women's Health Across the Nation (SWAN): New Jersey	NIA	5U01AG012535-25	DERBY, CAROL A ALBERT EINSTEIN COLLEGE	\$77,430		
Developing a Decision Aid for Adolescent and Young Adult Female Cancer	NCI	5R03CA212924-02	DIEFENBACH, MICHAEL A FEINSTEIN INSTITUTE FOR MEDICAL RESEARCH	\$82,500		
Homeostatic to reactive hyaluronan matrices in ovarian reproductive aging	NICHD	1R01HD093726-01	DUNCAN, FRANCESCA E NORTHWESTERN UNIVERSITY	\$336,620		
Effects of Hormone Therapy on Heart fat and Atherosclerosis Progression	NHLBI	5R21HL140011-02	EL KHOUADRY, SAMAR R UNIVERSITY OF PITTSBURGH	\$116,470		
Study of Women's Health Across the Nation - V	NIA	5U01AG012531-25	FINKELSTEIN, JOEL S MASSACHUSETTS GENERAL HOSPITAL	\$364,816		
Dynamic Regulation of the Ovarian Reserve	NICHD	1R01HD091848-01A1	FREIMAN, RICHARD NEIL BROWN UNIVERSITY	\$412,881		
Modeling ovarian aging phenotype in mechanically tuned 3D matrices	NIA	1F30AG058387-01A1	GARGUS, EMMA NORTHWESTERN UNIVERSITY	\$38,971		
The Menopause Transition: Estrogen Variability, HPA axis and Affective Symptoms	NIMH	5R01MH108690-03	GIRDLER, SUSAN S. UNIV OF NORTH CAROLINA	\$646,713		
STUDY OF WOMEN'S HEALTH ACROSS THE NATION (SWAN) V: UC DAVIS	NIA	5U01AG012554-25	GOLD, ELLEN B. UNIVERSITY OF CALIFORNIA	\$1,037,314		
Sequestration and clearance of age-induced damage in gametogenesis	NIA	1F31AG060656-01	GOODMAN, JAY S UNIVERSITY OF CALIFORNIA	\$39,838		
Study of Women's Health Across the Nation (SWAN) V: UCLA Site	NIA	5U01AG012539-25	GREENDALE, GAIL A UNIVERSITY OF CALIFORNIA	\$417,593		
Study of Women's Health Across the Nation (SWAN) V: Michigan Site	NINR	5U01NR004061-24	HARLOW, SIOBAN D UNIVERSITY OF MICHIGAN	\$288,836		
Estrogen-Mediated Impairments of Vascular Health in Diabetes	NHLBI	1R01HL137087-01A1	HARRIS, RYAN A AUGUSTA UNIVERSITY	\$705,547		
Preventing Aneuploidy in Aging Oocytes: Investigating the effects and mechanisms	NIA	5F31AG055157-03	HATKEVICH, TALIA LEE UNIV OF NORTH CAROLINA	\$32,663		
Vascular mechanisms for the effects of ovarian suppression on cognitive function	NIA	5K23AG045201-05	HILDRETH, KERRY UNIVERSITY OF COLORADO	\$158,490		
Preeclampsia to cardiovascular disease: Life course analysis of biomarkers	NHLBI	1R01HL139844-01A1	HLATKY, MARK A. STANFORD UNIVERSITY	\$2,267,445		
Phase II: Research and Commercialization of TruT Algorithm for Free Testosterone	NIA	5R44AG045011-03	JASUJA, RAVI FUNCTION PROMOTING TECHNOLOGIES	\$975,187		
Mechanism of Action and Functions of The Gli-related Proteins Glis 1-3	NIEHS	12IAES100485-17	JETTON, ANTON M	\$1,753,026		
Project 2 - Bilateral Oophorectomy on Imaging Biomarkers of Alzheimer's Disease	NIA	2U54AG044170-06	KANTARCI, KEJAL MAYO CLINIC ROCHESTER		\$411,330	
Resource Support Core - Clinical	NIA	2U54AG044170-06	KAPOOR, EKTA MAYO CLINIC ROCHESTER		\$136,152	
Coronary Heart Disease in Black Women: The Role of Adverse Pregnancy Outcomes	NHLBI	5K01HL133600-03	KELLEHER, SAMANTHA P BOSTON UNIVERSITY MEDICAL CENTER	\$125,730		
Coordinating nutrition and energy allocation: mechanisms and evolution	NIGMS	5R01GM117135-03	KING, ELIZABETH GRIEP UNIVERSITY OF MISSOURI	\$321,308		
Sex Hormones Differentially Regulate Production of a Distinct Adipocyte Type	NIA	9U54AG062319-06	KLEMM, DWIGHT J UNIVERSITY OF COLORADO DENVER		\$311,000	
Hysterectomy and Cognition: A Preclinical Evaluation	NIA	5F31AG056110-02	KOEBELE, STEPHANIE VIC ARIZONA STATE UNIVERSITY	\$43,800		
Metabolic and metabolic consequences of the loss of ovarian function	NIA	9U54AG062319-06	KOHR, WENDY M UNIVERSITY OF COLORADO DENVER		\$473,455	
Identification of drugs that delay aging	NIA	2R56AG026561-11	KORNFIELD, KERRY WASHINGTON UNIVERSITY	\$506,187		
Study of Women's Health Across the Nation (SWAN) V: Chicago site	NIA	5U01AG012505-25	KRAVITZ, HOWARD M RUSH UNIVERSITY MEDICAL CENTER	\$272,433		
Project 3 - Functional Analysis of Age-Specific FSH Analogs Using Genetically Modified Mice	NIA	5P01AG029531-07	KUMAR, T. RAJENDRA WICHITA STATE UNIVERSITY		\$353,430	
Nurses Health Study 3: A multiple exposure environmental epidemiologic study	NIEHS	1R24ES028521-01A1	LADEN, FRANCINE HARVARD SCHOOL OF PUBLIC HEALTH	\$427,690		
Marijuana use as a therapeutic target	NIA	1Z1AAG000869-11	LAKATTA, EDWARD	\$920,228		
Translational Epigenetics with XIST: Silencing Trisomy in Human Organoids	NICHD	1R01HD094788-01A1	LAWRENCE, JEANNE BEN UNIV OF MASSACHUSETTS	\$569,909		
Effects of estrogen on laryngeal muscle - Resubmission - 1	NIDCD	1F31DC017053-01A1	LENNEL, CHARLES MITCH NEW YORK UNIVERSITY SCHOOL OF MEDICINE	\$30,851		
Mentorship in the Endocrinology of Sleep	NHLBI	1K24HL138632-01A1	LIU, PETER YIWEN LA BIOMED RES INST/ HARVARD	\$119,586		
Effects of reproduction and lactation on postmenopausal bone health	NIA	5R01AR071718-02	LIU, XIAOWEI SHERRY UNIVERSITY OF PENNSYLVANIA	\$351,110		
Model system of oral contraceptive-induced VTE: integrating genomic, proteomic, and metabolomic approaches	NHLBI	1R61HL141791-01	LOWENSTEIN, CHARLES J UNIVERSITY OF ROCHESTER	\$700,179		
P1: Novel Targeted Strategies for Prevention and Conservative Management of Ovarian Cancer	NCI	3P50CA098258-13S1	LU, KAREN HSIEH UNIVERSITY OF TX MD ANDERSON CANCER CENTER		\$17,454	
P1: Novel Targeted Strategies for Prevention and Conservative Management of Ovarian Cancer	NCI	5P50CA098258-13	LU, KAREN HSIEH UNIVERSITY OF TX MD ANDERSON CANCER CENTER		\$291,695	
Mediators of metabolic decline with the loss of gonadal function	NIA	9U54AG062319-06	MACLEAN, PAUL S. UNIVERSITY OF COLORADO DENVER		\$311,000	
StoP Stroke: Sex-Specific Prevention of Stroke Through Reproductive Health	NHLBI	1K23HL140081-01A1	MADSEN, TRACY RHODE ISLAND HOSPITAL	\$192,592		
Study of Ovarian Aging and Reserve in Young Women (SOAR)	NICHD	5R01HD088638-02	MARSH, ERICA E UNIVERSITY OF MICHIGAN	\$627,451		
Study of Women's Health Across the Nation (SWAN) V: Pittsburgh	NIA	5U01AG012546-25	MATTHEWS, KAREN UNIVERSITY OF PITTSBURGH	\$319,213		
CORE B - FSH Glycoform Production; Purification; and Analysis	NIA	5P01AG029531-07	MAY, JEFFREY V. WICHITA STATE UNIVERSITY		\$370,012	
Study of Women's Health Across the Nation (SWAN) V: Central Laboratory	NIA	5U01AG012495-25	MCCONNELL, DANIEL S UNIVERSITY OF MICHIGAN	\$419,608		
Mechanistic understanding of age-dependent genetic architecture	NIGMS	5R01GM114170-04	MCGRATH, PATRICK T GEORGIA INSTITUTE OF TECHNOLOGY	\$289,665		
The impact of estrogen status on the biological function of brown adipocytes	NIDDK	5R01DK112260-03	MELANSON, EDWARD L UNIVERSITY OF COLORADO	\$572,624		
Project 1 - Effects of Bilateral Oophorectomy on Physical and Cognitive Function	NIA	2U54AG044170-06	MIELKE, MICHELLE M MAYO CLINIC ROCHESTER		\$391,881	
Contribution of estrogen receptor beta to changes in hypothalamic plasticity	NHLBI	3R01HL136520-02S1	MILNER, TERESA A WEILL MEDICAL COLL OF COLGEBOROUGH	\$423,750		
Contribution of estrogen receptor beta to changes in hypothalamic plasticity	NHLBI	5R01HL136520-02	MILNER, TERESA A WEILL MEDICAL COLL OF COLGEBOROUGH	\$423,750		
Perimenopause in APOE4 Brain: Clinical Outcomes and Global Impact	NIA	5P01AG026572-13	MOSCONI, LISA UNIVERSITY OF ARIZONA		\$483,277	
Placenta specific and ribosomal RNA genes: structure and function	NIA	1Z1AAG000646-21	NAGARAJA, RAMAIAH	\$1,213,799		
A systems biology approach to identifying the mechanisms of sex hormone action	NHLBI	1R61HL141794-01	NEEVES, KEITH B. COLORADO SCHOOL OF MINES	\$669,106		
Epidemiology of Diabetes Complications (EDC) Phase II: renewal	NIDDK	5R37DK034818-34	ORCHARD, TREVOR J. UNIVERSITY OF PITTSBURGH	\$619,390		
Protein Sumoylation in Oocyte Development	NICHD	5R01HD085994-02	PANGAS, STEPHANIE A. BAYLOR COLLEGE OF MEDICAL CENTER	\$328,888		
A Longitudinal Study of Endocrine Disruptor Mixtures and Reproductive Health	NIEHS	5R01ES026964-03	PARK, SUNG KYUN UNIVERSITY OF MICHIGAN	\$564,942		
The relation of migraine to daily hormone patterns and menopausal status	NIA	5K23AG049466-04	PAVLOVIC, JELENA ALBERT EINSTEIN COLLEGE	\$114,773		
E3Gen: Multigenerational Effects of Toxicant Exposures on Life Course Health	NIEHS	5R24ES028502-02	PETERSON, KAREN EILEEN UNIVERSITY OF MICHIGAN	\$339,961		
Investigation to Minimize Prolapse Recurrence Of the Vagina using Estrogen	NIA	3R01AG047290-04S1	RAHN, DAVID DWIGHT UT SOUTHWESTERN MEDICAL CENTER	\$40,770		
Investigation to Minimize Prolapse Recurrence Of the Vagina using Estrogen	NIA	5R01AG047290-04	RAHN, DAVID DWIGHT UT SOUTHWESTERN MEDICAL CENTER	\$394,829		
Project 3: Aging; body fat distribution and cardiometabolic disease risk	NHGRI	5U54HG006938-07	RAMSAY, MICHELE MICHELE WITS HEALTH CONSORTIUM (PTY), LTD		\$62,249	
Project III - Hormonal and Intracellular Mechanisms of Postmenopausal Health	NHLBI	5P01HL051971-25	RECKELHOFF, JANE F. UNIVERSITY OF MISSISSIPPI MEDICAL CENTER		\$428,197	
Aging and rejuvenation: An ant model to study the regulation of longevity	NIA	1R01AG058762-01	REINBERG, DANNY NEW YORK UNIVERSITY SCHOOL OF MEDICINE	\$655,542		
Interactive effects of short-term estrogen replacement and long-term treatment	NIA	5R21AG056039-02	RODGERS, SHAEFALI PILL UNIVERSITY OF HOUSTON	\$191,250		
Targeting angiotensin II in cognitive impairment associated with ovarian aging	NIA	1R21AG060730-01	SANDBERG, KATHRYN L GEORGETOWN UNIVERSITY	\$238,641		
Regulation of mechanosensitive K+ channels in detrusor smooth muscle	NIDDK	1R01DK119491-01	SANDERS, KENTON M UNIVERSITY OF NEVADA RENO	\$421,040		
Age-Related Allele-Specific DNA Methylation: Passage of Time or Cell Division	NIA	1R21AG057945-01	SAPIENZA, CARMEN TEMPLE UNIV OF THE COMMONWEALTH	\$237,750		
Oxidative Stress; Hormones and Women's Health	NICHD	1Z1AHD008762-16	SCHISTERMAN, ENRIQUE	\$179,300		
Calcium Independent Phospholipase A2 in Drosophila	NICHD	2R15HD080511-02	STEINHAUER, JOSEFA M YESHIVA UNIVERSITY	\$375,000		

The Reproductive Window in Young Adult Cancer Survivors	NICHD	5R01HD080952-05	SU, HUI-CHUN IRENE	UNIVERSITY OF CALIFORNI	\$443,945		
Statistical Modeling of Human Fecundity	NICHD	1Z1AHD008883-10	SUNDARAM, RAJESHWARI		\$140,078		
Origins and Functions of Mammalian Female Germline Stem Cells	NIA	5R01AG012279-22	TILLY, JONATHAN LEE	NORTHEASTERN UNIVERSIT	\$317,176		
Toxicant disruption of receptor-mediated endocytosis in oogenesis and	NIEHS	5R01ES028201-02	TIMME-LARAGY, ALICIA R	UNIVERSITY OF MASSACHU	\$386,645		
Whole Ovary Vitrification for Fertility Preservation	NICHD	1R43HD097690-01	TING, ALISON Y	21ST CENTURY MEDICINE,	\$172,694		
Genetic Modifiers of FXPOI Severity	NINDS	5U54NS091859-04	WARREN, STEPHEN T.	EMORY UNIVERSITY		\$129,036	
Iron Status at Perimenopause: Effects on Brain and Behavior	NIEHS	1R21ES027909-01A1	WENGER, MICHAEL J.	UNIVERSITY OF OKLAHOMA	\$240,502		
Ovarian Epithelial Cancer Progenitor Cell Population	NCI	1R01CA230916-01	XU, XIANGXI MIKE	UNIVERSITY OF MIAMI SCH	\$351,131		
Pittsburgh Pelvic Floor Research Program	NICHD	5UG1HD069006-08	ZYCZYNSKI, HALINA M	MAGEE-WOMEN'S RES INS	\$250,563		
Sequestration and clearance of age-induced damage in gametogenesis	NIA	5F31AG060656-01	GOODMAN, JAY S	UNIVERSITY OF CALIFORNI	\$39,838		

2019 NIH Total budget (millions)	39,184	TOTAL FUNDING			\$48,038,856	% Female Reproductive Longevity Research - 2019	0.12%
Project Title	Administering IC	Project Number	Contact PI / Project Lead	Organization Name	FY Total Cost	FY Total Cost (Sub Projects)	
Effects of a High-Glucose Diet on Gamete Survival and Quality in C. elegans	NICHD	1R15HD098661-01	MONDOUX, MICHELLE A	COLLEGE OF THE HOLY CROSS	\$332,200		
Regulation of Oocyte Development by Steroid Hormones	NICHD	1R15HD09859-01	PEPLING, MELISSA E	Syracuse	\$450,000		
Regulation of Folliculogenesis During Ovarian Recrudescence	NIGMS	5SC3GM116696-04	YOUNG, KELLY ANSLEY	CALIFORNIA STATE UNIVERSITY LONG BEACH	\$110,625		
Identification of the mechanisms responsible for the ovary-dependent extension of longevity	NIA	1R15AG061795-01	MASON, JEFFREY B.	UTAH STATE UNIVERSITY	\$434,997		
Water disinfection by-products and female fertility	NIHHS	5R21ES028963-02	FLAWS, JODI	UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN	\$237,900		
Short-term estradiol use in middle-age: implications for female cognitive aging	NIA	3RF1AG041374-06G	DANIEL, JILL M	TULANE UNIVERSITY OF LOUISIANA	\$376,250		
Racial/Ethnic Differences in Reproductive Aging and Onset of Cardio-metabolic Risk in the Study of Women's Health Across the Nation	NIA	1F31AG064856-01	REEVES, ALEXIS	UNIVERSITY OF MICHIGAN AT ANN ARBOR	\$38,319		
Action Mechanisms of Resveratrol in Somatic Longevity and Reproductive System	NIA	3R15AG060373-01	LEE, MYON HEE	EAST CAROLINA UNIVERSITY	\$22,975		
Action Mechanisms of Resveratrol in Somatic Longevity and Reproductive System	NIA	1R15AG060373-01	LEE, MYON HEE	EAST CAROLINA UNIVERSITY	\$435,664		
Homeostatic to reactive hyaluronan matrices in ovarian reproductive aging	NICHD	5R01HD093726-02	DUNCAN, FRANCESCA E.	NORTHWESTERN UNIVERSITY AT CHICAGO	\$324,545		
Epigenetic regulation of extreme longevity differences in ant castes	NIA	5R01AG055570-03	BERGER, SHELLEY L	UNIVERSITY OF PENNSYLVANIA	\$389,410		
Statistical Modeling of Human Fecundity	NICHD	1Z1AHD008883-11	SUNDARAM, RAJESHWAR	EUNICE KENNEDY SHRIVER NATIONAL INSTITUTE OF CHILD HEALTH & HUMAN DEVELOPMENT	\$65,865		
Age and molecular mechanisms contributing to aneuploidy in oocytes	NICHD	5R01HD058730-09	LAMPSON, MICHAEL	UNIVERSITY OF PENNSYLVANIA	\$314,225		
Mechanisms of Life Span Extension and Rejuvenation By Adult Reproductive Diapause	NIA	5R01AG031108-10	KAEBERLEIN, MATT	UNIVERSITY OF WASHINGTON	\$332,175		
The role of neural signaling pathways in costs of reproduction on aging	NIA	1R01AG063371-01	PLETCHER, SCOTT	UNIVERSITY OF MICHIGAN AT ANN ARBOR	\$434,061		
Meiotic checkpoint pathways and gametocyte quality control	NICHD	5R00HD082375-05	QIAO, HUANYU	UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN	\$233,426		
Mouse oocyte fate determination via polarized cytoplasmic transport within germline cysts	NIGMS	1R01GM126028-01	LEI, LEI	UNIVERSITY OF MICHIGAN AT ANN ARBOR	\$103,681		
Genetics and Genomics of the Ovarian Reserve and Female Fertility	NICHD	5R01HD093778-02	BOLCUN-FILAS, EWELINA	JACKSON LABORATORY	\$420,721		
The Menopause Transition: Estrogen Variability, HPA axis and Affective Symptoms	NIMH	5R01MH108690-04	GIRDLER, SUSAN S.	UNIV OF NORTH CAROLINA CHAPEL HILL	\$646,713		
Primary Ovarian Insufficiency: Etiology and Comorbid Disease	NICHD	1R01HD099487-01	WELT, CORRINE K	UNIVERSITY OF UTAH	\$324,063		
Characterization & Prevention of Chemotherapy-Induced Damage to Ovarian Reserve	NICHD	5R01HD053112-11	OKTAY, KUTLUK H	YALE UNIVERSITY	\$474,524		
Sex-Specific Aging Mechanisms	NIA	5R01AG057741-02	TOWER, JOHN GERARD	UNIVERSITY OF SOUTHERN CALIFORNIA	\$371,250		
Sequestration and clearance of age-induced damage in gametogenesis	NIA	5F31AG060656-02	GOODMAN, JAY S	UNIVERSITY OF CALIFORNIA BERKELEY	\$40,330		
Improving Health Care for Women Veterans: Addressing Menopause and Mental Health	VA	1K12HX002402-01A1		VETERANS AFFAIRS MED CTR SAN FRANCISCO			
Mechanisms of Vascular Dysfunction with Advancing Reproductive Age	NHLBI	1R01HL146558-01		UNIVERSITY OF DELAWARE	463371		
Contribution of estrogen receptor beta to changes in hypothalamic plasticity and hypertension	NHLBI	5R01HL136520-03		WELL MEDICAL COLL OF CORNELL UNIV	423750		
Telomeres and Female Fecundity	NHLBI	5R01HL134840-03	AVIV, ABRAHAM	RHIS-NEW JERSEY MEDICAL SCHOOL	647336		
Eliciting Estrogen's Protective Vascular Effects	NHLBI	5R01HL133619-03		TULANE UNIVERSITY OF LOUISIANA	458166		
Epidemiologic Evaluation of Risk Factors for Hypertension in Postmenopausal Women: Perimenopausal Women	NHLBI	5F30HL132604-04		STATE UNIVERSITY OF NEW YORK AT BUFFALO	50016		
Mineralocorticoid and estrogen receptor alpha signaling in the pathogenesis of vascular stiffening	NHLBI	5K08HL129074-05		UNIVERSITY OF MISSOURI-COLUMBIA	169376		
Project 3: Aging, body fat distribution and cardiometabolic disease risk factors in menopausal women	NHGRI	5U54HG006938-08		WITS HEALTH CONSORTIUM (PTY), LTD	\$2,238		
Extremely Long Lived Proteins and Female Reproductive Aging	NICHD	1R21HD098498-01	DUNCAN, FRANCESCA E.	NORTHWESTERN UNIVERSITY AT CHICAGO	255700		
Obesity-driven endometrial hyperplasia in postmenopausal women: Synergistic role for insulin resistance	NICHD	1R01HD097368-01		YALE UNIVERSITY	495288		
Infertility History and Chronic Disease Profile	NICHD	1R01HD096033-01A1		MICHIGAN STATE UNIVERSITY	714566		
A lifecourse approach to women's cardiometabolic and bone health: from fertility to perimenopause	NICHD	1R01HD096032-01A1		HARVARD PILGRIM HEALTH CARE, INC.	728008		
Dynamic Regulation of the Ovarian Reserve	NICHD	5R01HD091848-02		BROWN UNIVERSITY	417614		
Defining Mechanisms of Ovarian Rescue	NICHD	5R01HD090050-03		DUKE UNIVERSITY	327170		
Protein Sumoylation in OOCYTE Development	NICHD	5R01HD085994-03		BAYLOR COLLEGE OF MEDICINE	328888		
Multietnic Fine-Mapping of Polycystic Ovary Syndrome Susceptibility Loci	NICHD	5R01HD085227-04		ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	600770		
Cryopreservation and Transplantation of Ovarian Cortical Tissue for Fertility Preservation	NICHD	5R01HD083930-04		OREGON HEALTH & SCIENCE UNIVERSITY	588107		
Role of NKB in the control of GnRH secretion by ovarian steroids	NICHD	5R01HD082135-04		WEST VIRGINIA UNIVERSITY	484927		
Dysregulation of FSH in Obesity: Functional and Statistical Analysis	NICHD	5R01HD081162-05		UNIVERSITY OF COLORADO DENVER	336457		
The Role of FSH in Female Infertility	NICHD	5P50HD012303-37		UNIVERSITY OF CALIFORNIA, SAN DIEGO	\$484,039		
Environmental Effects On Fertility	NIHHS	1Z1AE5049003-30		NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES	397824		
Phthalates and Ovarian Toxicity	NIHHS	5R01ES028661-02		UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN	353132		
Iron Status at Perimenopause: Effects on Brain and Behavior	NIHHS	5R21ES027909-02		UNIVERSITY OF OKLAHOMA NORMAN	195721		
Environmentally Relevant Phthalate Exposures and Ovarian Function	NIHHS	5R01ES026998-03		UNIVERSITY OF ARIZONA	578427		
Phthalate exposure and hot flashes in midlife women	NIHHS	5R01ES026956-03		UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN	496556		
Menopausal transition - a window of susceptibility for the promotion of breast cancer by estrogen	NIHHS	5U01ES026137-05		BECKMAN RESEARCH INSTITUTE/CITY OF HOUSTON	641750		
Menopausal transition - a window of susceptibility for the promotion of breast cancer by estrogen	NIHHS	5U01ES026137-05		BECKMAN RESEARCH INSTITUTE/CITY OF HOUSTON	250000		
Estrogen receptor control of inflammatory gene expression	NIDDK	5R01DK113056-03		SCRIPPS FLORIDA	432000		
Targeting the estrogen receptor- α to protect functional β -cell mass in women	NIDDK	5R01DK074970-10		TULANE UNIVERSITY OF LOUISIANA	371097		
Oral immune activation and alveolar bone loss in HIV-infected postmenopausal women	NIDCR	5R01DE026924-03		COLUMBIA UNIVERSITY HEALTH SCIENCES	456341		
Brain Health in Breast Cancer Survivors: Interaction of Menopause and Endocrine Therapy	NCJ	1K08CA241337-01		UNIVERSITY OF CALIFORNIA LOS ANGELES	184965		
Epigenetic Age as a Marker of Reproductive Age and Modifier of Invasive Breast Cancer Risk	NCJ	5K07CA225856-02		UNIVERSITY OF CALIFORNIA LOS ANGELES	79491		
Effects of reproduction and lactation on postmenopausal bone health.	NIAMS	5R01AR071718-03		UNIVERSITY OF PENNSYLVANIA	343626		
Changes in Periosteal and Endocortical Width Across the Menopausal Transition	NIAMS	5R01AR068452-02		UNIVERSITY OF MICHIGAN AT ANN ARBOR	406492		
Health of the Cholinergic System and Risk for Alzheimer's Disease in Postmenopausal Women	NIA	1R01AG066159-01		UNIVERSITY OF VERMONT & ST AGRIC COLLEGE	1516478		
Impact of Aging on Mucosal Immune Protection in the Female Reproductive System	NIA	1R01AG064794-01		DARTMOUTH COLLEGE	492000		
Mechanisms of Hypothalamic-Pituitary-Thyroid Axis Aging	NIA	1R56AG064256-01		JOHNS HOPKINS UNIVERSITY	421733		
Bioenergetic and metabolic consequences of the loss of ovarian function in women	NIA	5U54AG062319-07		UNIVERSITY OF COLORADO DENVER	\$459,580		
Effects of hormones and menopausal transitions on hippocampal structure and function	NIA	1R21AG061758-01		UNIVERSITY OF CALIFORNIA LOS ANGELES	156000		
Effects of cell-based hormone therapy on LV diastolic dysfunction and hypertrophy progression	NIA	1R21AG061588-01		WAKE FOREST UNIVERSITY HEALTH SCIENCES	232500		
FSH - an Aging Hormone?	NIA	3U19AG060917-01S1		ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI		132886	
FSH - an Aging Hormone?	NIA	1U19AG060917-01		ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	2624816		
Targeting angiotensin II in cognitive impairment associated with ovarian hormone loss	NIA	5R21AG060730-02		GEORGETOWN UNIVERSITY	191323		
Ovarian Hormone Loss and Perivascular Fat	NIA	1R21AG060244-01A1		GEORGETOWN UNIVERSITY	233250		
Compositional and Functional Alterations of HDL Over Ovarian Aging	NIA	5R01AG058690-02		UNIVERSITY OF PITTSBURGH AT PITTSBURGH	405209		
A Neurosteroid Intervention for Menopausal and Perimenopausal Depression	NIA	5R01AG056426-02		UT SOUTHWESTERN MEDICAL CENTER	686651		
Menopausal Sleep Fragmentation: Impact on Body Fat Gain Biomarkers in Women	NIA	5R01AG053838-03		BRIGHAM AND WOMEN'S HOSPITAL	999817		
Aging and Estrogenic Control of the Bioenergetic System in Brain	NIA	5R37AG053589-03		UNIVERSITY OF ARIZONA	308856		
Menopausal Vasomotor Symptoms and Brain Aging in Women	NIA	3RF1AG053504-01S1		UNIVERSITY OF PITTSBURGH AT PITTSBURGH	357018		
Longitudinal Evaluation of Ovarian Aging and Cardiovascular Risk	NIA	5R01AG053332-03		UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	1503485		
Transdermal Nitroglycerin Therapy for Menopausal Hot Flashes	NIA	5R01AG050588-04		UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	537166		
Sex-Specific Effects of Endocrine Disruption on Aging and Alzheimer's Disease	NIA	5U54AG044170-07		MAYO CLINIC ROCHESTER		46867	
Sex-Specific Effects of Endocrine Disruption on Aging and Alzheimer's Disease	NIA	5U54AG044170-07		MAYO CLINIC ROCHESTER	1490455		
Ligand-independent signaling of estrogen receptor beta and the aging brain	NIA	5R01AG033605-08	PAK, TONI R.	LOYOLA UNIVERSITY CHICAGO	421293		
The Aging Pituitary/Gonadal Axis	NIA	5P01AGO29531-08		WICHITA STATE UNIVERSITY	1709158		
Project 3 - Functional Analysis of Age-Specific FSH Analogs Using Genetically Altered Mice	NIA	5P01AGO29531-08		WICHITA STATE UNIVERSITY		\$353,397	
Variations in Hormones During Menopause: Effects on Cognitive and Brain Aging	NIA	5R01AG028084-12		ARIZONA STATE UNIVERSITY-TEMPE CAMPUS	321666		
Perimenopause in Brain Aging and Alzheimer's Disease	NIA	5P01AGO26572-14		UNIVERSITY OF ARIZONA	2064572		
SWAN Genomic Analyses and SWAN Legacy	NIA	5U01AG017719-19		UNIVERSITY OF MICHIGAN AT ANN ARBOR	707722		
STUDY OF WOMEN'S HEALTH ACROSS THE NATION (SWAN) V: UC DAVIS/KAISER	NIA	3U01AG012554-25S1		UNIVERSITY OF CALIFORNIA AT DAVIS	89277		
Study of Women's Health Across the Nation (SWAN) V: Coordinating Center - Administrative	NIA	3U01AG012553-24S1		UNIVERSITY OF PITTSBURGH AT PITTSBURGH	268639		
Study of Women's Health Across the Nation (SWAN) V: Coordinating Center - Administrative	OD	3U01AG012553-24S1		UNIVERSITY OF PITTSBURGH AT PITTSBURGH	89277		
Study of Women's Health Across the Nation (SWAN) V: Pittsburgh	OD	3U01AG012546-25S1		UNIVERSITY OF PITTSBURGH AT PITTSBURGH	89276		
Study of Women's Health Across the Nation (SWAN) V: Pittsburgh	NIA	3U01AG012546-25S1		UNIVERSITY OF PITTSBURGH AT PITTSBURGH	159359		
The Study of Women Across a Lifespan: SWAN	OD	3U01AG012535-26S1		ALBERT EINSTEIN COLLEGE OF MEDICINE	89277		
The Study of Women Across a Lifespan: SWAN	NIA	3U01AG012535-26S1		ALBERT EINSTEIN COLLEGE OF MEDICINE	33223		
Study of Women's Health Across the Nation - V	OD	3U01AG012531-25S1		MASSACHUSETTS GENERAL HOSPITAL	89277		
Study of Women's Health Across the Nation - V	NIA	3U01AG012531-25S1		MASSACHUSETTS GENERAL HOSPITAL	69790		
Study of Women's Health Across the Nation (SWAN) V: Chicago site	NIA	3U01AG012505-25S1		RUSH UNIVERSITY MEDICAL CENTER	53616		
Origins and Functions of Mammalian Female Germline Stem Cells	NIA	5R01AG012279-23	TILLY, JONATHAN LEE	NORTHEASTERN UNIVERSITY	317176		
Estrogen and the Aging Primate Brain	NIA	1Z1AA000351-11		NATIONAL INSTITUTE ON AGING	162286		
Nurses Health Study 3: A multiple exposure environmental epidemiology cohort of young women	NIHHS	5R24ES028521-02	LADEN, FRANCINE	HARVARD SCHOOL OF PUBLIC HEALTH	\$408,827		

Project 3 - Brayboy	NIGMS	5P20GM121298-03 BRAYBOY, LYNAE M	WOMEN AND INFANTS HOSPITAL-RHODE ISLAND	\$333,827	
Misfoldome-centered multiOMICs approach to unravel preeclampsia subphenotypes.	NICHD	5R01HD084628-05 BUHIMSCHI, IRINA A	RESEARCH INST NATIONWIDE CHILDREN	\$626,430	
Mentorship in the Endocrinology of Sleep	NHLBI	1K24HL138632-02 LIU, PETER YIWEN	LA BIOMED RES INST/ HARBOR UCLA MEI	\$119,586	
Effects of estrogen on laryngeal muscle - Resubmission - 1	NIDCD	1F31DC017053-02 LENELL, CHARLES MITCHELL	NEW YORK UNIVERSITY SCHOOL OF MED	\$27,535	
P1: Novel Targeted Strategies for Prevention and Conservative Management of Complex Atypical Atrial Fibrillation	NCI	3P50CA098258-14 LU, KAREN HSIEH	UNIVERSITY OF TX MD ANDERSON CAN C	\$290,154	
Mediators of metabolic decline with the loss of gonadal function	NIA	9U54AG062319-07 MACLEAN, PAUL S.	UNIVERSITY OF COLORADO DENVER	\$256,077	
StoP STRoE: Sex-Specific Prevention of Stroke Through Reproductive Risk Factors and Sex-Specific Mechanisms	NHLBI	1K23HL140081-02 MADSEN, TRACY	RHODE ISLAND HOSPITAL	\$192,006	
How age-dependent alterations in meiotic recombination cause chromosome mis-segregation	NICHD	5R01HD098129-01 COLE, FRANCESCA	UNIVERSITY OF TX MD ANDERSON CAN C	\$394,264	
Mechanistic understanding of age-dependent genetic architecture	NIGMS	5R01GM114170-05 MCGRATH, PATRICK T	GEORGIA INSTITUTE OF TECHNOLOGY	\$288,206	
Perimenopause in APOE4 Brain: Clinical Outcomes and Global Impact	NIA	5P01AG026572-14 MOSCONI, LISA	UNIVERSITY OF ARIZONA		\$469,707
Placenta specific and ribosomal RNA genes: structure and function	NIA	1Z1AAG000646-22 NAGARAJA, RAMAIAH		\$1,044,517	
A systems biology approach to identifying the mechanisms of sex hormone induced thrombosis	NHLBI	1R61HL141794-02 NEEVES, KEITH B	COLORADO SCHOOL OF MINES	\$710,913	
The relation of migraine to daily hormone patterns and menopausal stage	NIA	5K23AG049466-05 PAVLOVIC, JELENA	ALBERT EINSTEIN COLLEGE OF MEDICINE	\$187,706	
Investigation to Minimize Prolapse Recurrence Of the Vagina using Estrogen (IMPROVE)	NIA	3R01AG047290-05 RAHN, DAVID DWIGHT	UT SOUTHWESTERN MEDICAL CENTER	\$399,783	
Targeting angiotensin II in cognitive impairment associated with ovarian hormone loss	NIA	1R21AG060730-02 SANDBERG, KATHRYN L	GEORGETOWN UNIVERSITY	\$191,323	
Regulation of mechanosensitive K+ channels in detrusor smooth muscle by estrogen	NIDDK	1R01DK119491-02 SANDERS, KENTON M	UNIVERSITY OF NEVADA RENO	\$421,040	
Age-Related Allele-Specific DNA Methylation: Passage of Time or Cell Divisions?	NIA	1R21AG057945-02 SAPIENZA, CARMEN	TEMPLE UNIV OF THE COMMONWEALTH	\$198,125	
Oxidative Stress; Hormones and Women's Health	NICHD	1Z1AHD008762-17 SCHISTERMAN, ENRIQUE		\$259,071	
Toxicant disruption of receptor-mediated endocytosis in oogenesis and later life metabolic health	NIEHS	5R01ES028201-03 TIMME-LARAGY, ALICIA R	UNIVERSITY OF MASSACHUSETTS AMHER	\$386,040	
Toxicant disruption of receptor-mediated endocytosis in oogenesis and later life metabolic health	OD	5R01ES028201-03 TIMME-LARAGY, ALICIA R	UNIVERSITY OF MASSACHUSETTS AMHER	\$153,711	
Genetic Modifiers of FXPOJ Severity	NINDS	5U54NS091859-05 WARREN, STEPHEN T.	EMORY UNIVERSITY		\$129,037
Ovarian Epithelial Cancer Progenitor Cell Population	NCI	1R01CA230916-02 XU, XIANGXI MIKE	UNIVERSITY OF MIAMI SCHOOL OF MED	\$340,596	
Pittsburgh Pelvic Floor Research Program	NICHD	5UG1HD069006-09 ZYCZYNSKI, HALINA M	MAGEE-WOMEN'S RES INST AND FOUND.	\$249,326	

2020 NIH Total Budget (millions)	41,685	TOTAL FUNDING	\$61,032,621	% Female Reproductive Longevity Research - 2020	0.15%	
Project Title	Administering IC	Project Number	Contact PI / Project Lead	Organization Name	FY Total Cost	FY Total Cost (Sub Projects)
Mechanism of Prenatal Chromium-VI Exposure and Germ Cell Apoptosis in NIEHS	NIEHS	5R01ES025234-05	BANU, SAKHILA	TEXAS A&M AGRILIFE RESEARCH	\$334,125	
Regulation of germline function and oocyte quality under stress	NIGMS	1R15GM137256-01	PETRELLA, LISA NICOLE	MARQUETTE UNIVERSITY	\$459,000	
Neuroendocrine Regulation of Reproduction by Glucocorticoids	NICHHD	5R01HD086100-05	BREEN, KELLIE M	UNIVERSITY OF CALIFORNIA, SAN DIEGO	\$321,625	
Role of NKB in the control of GnRH secretion by ovarian steroids	NICHHD	5R01HD082135-05	GOODMAN, ROBERT L	WEST VIRGINIA UNIVERSITY	\$484,927	
Cryopreservation and Transplantation of Ovarian Cortical Tissue for Fertility	NICHHD	5R01HD083930-05	ZELINSKI, MARY B	OREGON HEALTH & SCIENCE UNIVERSITY	\$588,107	
Extremely Long Lived Proteins and Female Reproductive Aging	NICHHD	5R21HD098498-02	DUNCAN, FRANCESCA E	NORTHWESTERN UNIVERSITY AT CHICAGO	\$203,800	
Microfluidic encapsulation of ovarian follicles for biometric 3D culture and cryopreservation	NICHHD	5R01EB023632-04	HE, XIAOMING	NATIONAL INSTITUTE OF BIOMEDICAL IM	\$416,976	
Interactions of glutathione, reactive oxygen species, and lipids on oocyte	NICHHD	5R21HD097541-02	LUDERER, ULRIKE	UNIVERSITY OF CALIFORNIA-IRVINE	\$186,236	
Novel reverse genetics approach to probe cytoskeletal functions in mamm	NICHHD	5R03HD098441-02	EVANS, JANICE P	PURDUE UNIVERSITY	\$77,500	
Uterine infection and infertility: how microbial infection of the reproduct	NICHHD	5R01HD084316-05	BROMFIELD, JOHN J	UNIVERSITY OF FLORIDA	\$316,909	
Frontiers in Reproduction (FIR) Training Course	NICHHD	2R25HD080632-06	HYMAN, LINDA E	MARINE BIOLOGICAL LABORATORY	\$159,200	
Trajectory of ovarian morphology during the adolescent reproductive tran	NICHHD	5R21HD095372-02	LUJAN, MARLA E	CORNELL UNIVERSITY	\$193,130	
Evaluation of the effect of fitness on hot flashes and subclinical cardiovasc	NHLBI	1R15HL145650-01A1	WITKOWSKI, SARAH	SMITH COLLEGE	\$412,548	
Menopausal Sleep Fragmentation: Impact on Body Fat Gain Biomarkers in NIA	NIA	5R01AG053838-04	JOFFE, HADINE	BRIGHAM AND WOMEN'S HOSPITAL	\$895,541	
Effects of hormones and menopausal transitions on hippocampal structure	NIA	5R21AG061758-02	BURGREN, ALISON CLEA	UNIVERSITY OF CALIFORNIA LOS ANGELES	\$156,000	
The Menopause Transition: Estrogen Variability, HPA axis and Affective Syn	NIMH	5R01MH108690-05	GIRDLER, SUSAN S	UNIV OF NORTH CAROLINA CHAPEL HILL	\$551,252	
The Study of Women's Health Across the Nation (SWAN): The Impact of M	NIA	1U19AG063720-01A1	BROOKS, MARIA MORI	UNIVERSITY OF PITTSBURGH AT PITTSBUR	\$10,998,003	
Epigenetic regulation of extreme longevity differences in ant castes	NIA	5R01AG055570-04	BERGER, SHELLEY L	UNIVERSITY OF PENNSYLVANIA	\$389,410	
Age and molecular mechanisms contributing to aneuploidy in oocytes	NICHHD	5R01HD058730-10	LAMPSON, MICHAEL	UNIVERSITY OF PENNSYLVANIA	\$314,058	
Statistical Modeling of Human Fecundity	NICHHD	12IAHD08883-12	SUNDARAM, RAJESHWAR	UNICEF KENNEDY SHRIVER NATIONAL INS	\$3,086	
Role of Melanin-concentrating Hormone in the Integration of Sleep and Re	NICHHD	1F31HD102160-01	BEEKLY, BETHANY GENELL	UNIVERSITY OF MICHIGAN AT ANN ARBO	\$37,921	
Cellular senescence and epigenomic remodeling in ovarian aging	NIA	1R01AG069742-01	STOUT, MICHAEL B	UNIVERSITY OF OKLAHOMA HLTH SCIENC	\$345,069	
Telomeres and Female Fecundity	NHLBI	5R01HL134840-04	AVIV, ABRAHAM	RBHS-NEW JERSEY MEDICAL SCHOOL	\$622,776	
The role of neural signaling pathways in costs of reproduction on aging	NIA	5R01AG063371-02	PLETCHER, SCOTT	UNIVERSITY OF MICHIGAN AT ANN ARBO	\$386,302	
Estimating population level infertility and fertility treatment rates	NICHHD	5R03HD097287-02	MCLAIN, ALEXANDER C	UNIVERSITY OF SOUTH CAROLINA AT COL	\$75,364	
Genetics and Genomics of the Ovarian Reserve and Female Fertility	NICHHD	5R01HD093778-03	BOLCUN-FILAS, EWELINA	JACKSON LABORATORY	\$420,721	
Mitochondrial RNA defense pathways in the oocyte	NICHHD	5R01HD094545-03	CHRISTENSON, LANE K.	UNIVERSITY OF KANSAS MEDICAL CENTE	\$418,200	
Ligand-independent signaling of estrogen receptor beta and the aging brai	NIA	5R01AG033605-09	PAK, TONI R.	LOYOLA UNIVERSITY CHICAGO	\$442,961	
Sex-Specific Aging Mechanisms	NIA	5R01AG057741-03	TOWER, JOHN GERARD	UNIVERSITY OF SOUTHERN CALIFORNIA	\$371,250	
RNA binding protein networks and translational control in mammalian ooc	NIGMS	2R01GM116926-05	CONTI, MARCO	UNIVERSITY OF CALIFORNIA, SAN FRANCI	\$372,356	
Brain estrogen as a regulator of post-menopausal VCID	NINDS	1F31NS115290-01A1		ALBANY MEDICAL COLLEGE	45520	
Advancing Knowledge about Exercise as a Therapeutic Management Strate	NINR	1F31NR019206-01A1		UNIVERSITY OF SOUTH CAROLINA AT COL	34688	
Mechanisms of Vascular Dysfunction with Advancing Reproductive Age	NHLBI	5R01HL146558-02		UNIVERSITY OF DELAWARE	453039	
Whole Ovary Vitrification for Fertility Preservation	NICHHD	1R44HD104531-01	TING, ALISON Y	21ST CENTURY MEDICINE, INC.	832615	
Female Reproductive Tissue Mapping Center	OD	1U54HD104393-01		UNIVERSITY OF CALIFORNIA, SAN DIEGO	600000	
Methods of fertility protection by Mullerian inhibiting substance in the fen	NICHHD	1R01HD102014-01		MASSACHUSETTS GENERAL HOSPITAL	368820	
The regulation of ovarian aging by H19 and let-7	NICHHD	1R01HD101475-01A1		YALE UNIVERSITY	360125	
Translational Control in Oogenesis and Embryogenesis	NICHHD	1R01HD100447-01A1		UNIVERSITY OF UTAH	327875	
Primary Ovarian Insufficiency: Etiology and Comorbid Disease	NICHHD	5R01HD099487-02	WELT, CORRINE K	UNIVERSITY OF UTAH	324063	
A lifecourse approach to women's cardiometabolic and bone health: from	NICHHD	5R01HD096032-02		HARVARD PILGRIM HEALTH CARE, INC.	689080	
Dynamic Regulation of the Ovarian Reserve	NICHHD	5R01HD091848-03		BROWN UNIVERSITY	418695	
Defining Mechanisms of Ovarian Rescue	NICHHD	5R01HD090050-04		DUKE UNIVERSITY	327114	
Protein Sumoylation in OOCYTE Development	NICHHD	5R01HD085994-04	PANGAS, STEPHANIE A.	BAYLOR COLLEGE OF MEDICINE	328888	
Multiethnic Fine-Mapping of Polycystic Ovary Syndrome Susceptibility Loc	NICHHD	5R01HD085227-05		ICAHN SCHOOL OF MEDICINE AT MOUNT	564320	
The Role of FSH in Female Infertility	NICHHD	5P50HD012303-38		UNIVERSITY OF CALIFORNIA, SAN DIEGO	\$409,290	
Impact of Menopause on the Aqueous Outflow Pathway	NEI	1R01EY030871-01A1		GEORGIA INSTITUTE OF TECHNOLOGY	379970	
Environmental Effects On Fertility	NIEHS	12IAES049003-31		NATIONAL INSTITUTE OF ENVIRONMNTA	437162	
Relating phthalate and metals exposure during pregnancy and perimenop	NIEHS	1R01ES032202-01		UNIVERSITY OF MICHIGAN AT ANN ARBO	328856	
Investigating obesity-induced altered ovarian intracellular signaling	NIEHS	1R01ES030341-01A1		IOWA STATE UNIVERSITY	459663	
Phthalates and Ovarian Toxicity	NIEHS	5R01ES028661-03		UNIVERSITY OF ILLINOIS AT URBANA-CHA	353021	
Environmentally Relevant Phthalate Exposures and Ovarian Function	NIEHS	5R01ES026998-04		UNIVERSITY OF ARIZONA	456527	
A Longitudinal Study of Endocrine Disruptor Mixtures and Reproductive Ag	NIEHS	5R01ES026964-04		UNIVERSITY OF MICHIGAN AT ANN ARBO	462522	
Phthalate exposure and hot flashes in midlife women	NIEHS	5R01ES026956-04		UNIVERSITY OF ILLINOIS AT URBANA-CHA	368797	
Developmental Gene-Environment Interactions and Premature Ovarian Fai	NIEHS	5R01ES020454-09		UNIVERSITY OF CALIFORNIA-IRVINE	541068	
The role of brain-gut microbiome interactions in mediating IBS and consti	NIDDK	1U54DK123755-01		UNIVERSITY OF CALIFORNIA LOS ANGELES	\$482,048	
Dissecting a hormone-responsive processor for female activity and repeti	NIDDK	1R01DK121657-01A1		UNIVERSITY OF CALIFORNIA, SAN FRANCI	500227	
Treating Inflammation in PCOS to Ameliorate Ovarian Dysfunction	NIDDK	5R01DK107605-04		UNIVERSITY OF ILLINOIS AT CHICAGO	731969	
Oral immune activation and alveolar bone loss in HIV-infected postmenop	NIDCR	5R01DE026924-04		COLUMBIA UNIVERSITY HEALTH SCIENCES	443800	
Adipose and Lean Soft Tissue Depots, Cancer Risk and Mortality in Postme	NCI	1R01CA253302-01		UNIVERSITY OF ARIZONA	358532	
Development of Novel Ovarian Cancer Biomarkers for Early Detection Algo	NCI	1R01CA247220-01		UNIVERSITY OF PITTSBURGH AT PITTSBUR	899816	
Brain Health in Breast Cancer Survivors: Interaction of Menopause and Enc	NCI	5K08CA241337-02		UNIVERSITY OF CALIFORNIA LOS ANGELES	184965	
Epigenetic Age as a Marker of Reproductive Age and Modifier of Invasiv	NCI	5K07CA225856-04		UNIVERSITY OF HAWAII AT MANOA	145657	
Endogenous hormones and postmenopausal breast cancer: Etiologic insig	NCI	5R01CA207369-04		UNIVERSITY OF MASSACHUSETTS AMHER	1003506	
Exploring factors related to racial disparities in ovarian cancer incidence	NCI	7R01CA207260-04		EMORY UNIVERSITY	623050	
Signals controlling tissues homeostasis in the ovary		1I01BX004272-01A2		OMAHA VA MEDICAL CENTER	?	
Self-administered hypnosis treatment for the management of hot flashes i	NIA	3R01AT009384-04S1		BAYLOR UNIVERSITY		299041
Self-administered hypnosis treatment for the management of hot flashes i	NCCH	5R01AT009384-04		BAYLOR UNIVERSITY	692450	
Predicting Fast Bone Mineral Density Decline and Fracture Across the Men	NIAMS	1R01AR075729-01A1		UNIVERSITY OF CALIFORNIA LOS ANGELES	503728	
Effects of reproduction and lactation on postmenopausal bone health	NIAMS	3R01AR071718-04S1		UNIVERSITY OF PENNSYLVANIA	81000	
Effects of reproduction and lactation on postmenopausal bone health.	NIAMS	5R01AR071718-04		UNIVERSITY OF PENNSYLVANIA	341342	
Regulatory Landscape of the Aging Human Ovary	NIA	1R01AG069750-01	WILLIAMS, ZEV	COLUMBIA UNIVERSITY HEALTH SCIENCES	345000	
Methods to Test Lifestyle, Vaginal Microenvironment, and Genitourinary S	NIA	1R56AG068673-01		UNIVERSITY OF MARYLAND BALTIMORE	795662	
A Cerebrovascular Basis for Sex Differences in Alzheimer's Disease Risk	NIA	1R01AG067018-01		UNIVERSITY OF PITTSBURGH AT PITTSBUR	428262	
Expanded Clinical Trial of Granulocyte Colony-Stimulating Factor (G-CSF) t	NIA	1R43AG066538-01		MENOGENIX, INC.	299831	
Health of the Cholinergic System and Risk for Alzheimer's Disease in Postn	NIA	5R01AG066159-02		UNIVERSITY OF VERMONT & ST AGRIC CC	1483342	
Understanding the role of menopause and estrogen receptor activation fo	NIA	1R01AG065209-01A1		KAROLINSKA INSTITUTE	475973	
Racial/Ethnic Differences in Reproductive Aging and Onset of Cardio-metal	NIA	5F31AG064856-02		UNIVERSITY OF MICHIGAN AT ANN ARBO	38028	
Impact of Aging on Mucosal Immune Protection in the Female Reproductiv	NIA	5R01AG064794-02		DARTMOUTH COLLEGE	484753	
Peri-menopause as a neurological transition state that triggers Alzheimer's	NIA	1R21AG064455-01A1		WEILL MEDICAL COLL OF CORNELL UNIV	211875	
Autonomic regulation of blood pressure in premature and early menopausu	NIA	1K01AG064038-01A1		UNIVERSITY OF MINNESOTA	131760	
Impact of ovarian hormone suppression on regional and global brain archi	NIA	1R01AG063843-01A1		UNIVERSITY OF CALIFORNIA, SAN DIEGO	967229	
Project 2: Menopause, Midlife and Cardiovascular Health in Early Old Age	NIA	1U19AG063720-01A1		UNIVERSITY OF PITTSBURGH AT PITTSBUR	\$1,386,755	
Sex Hormones, Aging, Alzheimer's Disease and Other Neurodegenerative	NIA	5F32AG063442-02	KUSTERS, CYNTHIA DIAN	UNIVERSITY OF CALIFORNIA LOS ANGELES	79371	
Center for Stress and Neural Regulation of Reproductive Aging Health Out	OD	1U54AG062322-01A1		BRIGHAM AND WOMEN'S HOSPITAL	1276086	
Center for Stress and Neural Regulation of Reproductive Aging Health Out	NIA	1U54AG062322-01A1		BRIGHAM AND WOMEN'S HOSPITAL	496749	
Bioenergetic and metabolic consequences of the loss of ovarian function in women	NIA	5U54AG062319-08		UNIVERSITY OF COLORADO DENVER	\$459,580	
FSH - an Aging Hormone?	NIA	5U19AG060917-02		ICAHN SCHOOL OF MEDICINE AT MOUNT	2346376	
FSH - An Aging Hormone?	NIA	3U19AG060917-02S1		ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI		407765
Compositional and Functional Alterations of HDL Over Ovarian Aging	NIA	5R01AG058690-03		UNIVERSITY OF PITTSBURGH AT PITTSBUR	382261	
Aging and Estrogenic Control of the Bioenergetic System in Brain	NIA	5R37AG053589-04		UNIVERSITY OF ARIZONA	308390	
Project 1 - Effects of Bilateral Oophorectomy on Physical and Cognitive	AGING	5U54AG044170-08		MAYO CLINIC ROCHESTER		
Bone as a Sensor of and Responder to Stress During Aging	NIA	2P01AG032959-11A1		COLUMBIA UNIVERSITY HEALTH SCIENCES	2633537	
Project 3 - Functional Analysis of Age-Specific FSH Analogs Using Genetica	Mice	5P01AG029531-09		WICHITA STATE UNIVERSITY	\$353,397	

Variations in Hormones During Menopause: Effects on Cognitive and Brain NIA	5R01AG028084-13		ARIZONA STATE UNIVERSITY-TEMPE CAMI	319849	
SWAN Genomic Analyses and SWAN Legacy	NIA	5U01AG017719-20	UNIVERSITY OF MICHIGAN AT ANN ARBO	641381	
Origins and Functions of Mammalian Female Germline Stem Cells	NIA	5R01AG012279-24	TILLY, JONATHAN LEE	NORTHEASTERN UNIVERSITY	317176
Sequestration and clearance of age-induced damage in gametogenesis	NIA	5F31AG060656-02	GOODMAN, JAY S	UNIVERSITY OF CALIFORNIA BERKELEY	\$40,484
Nurses Health Study 3: A multiple exposure environmental epidemiology c	NIHNS	5R24ES028521-03	LADEN, FRANCINE	HARVARD SCHOOL OF PUBLIC HEALTH	\$403,916
Project 3 - Brayboy	NIGMS	5P20GM121298-04	BRAYBOY, LYNAE M	WOMEN AND INFANTS HOSPITAL-RHODE ISLAND	\$23,219
Mentorship in the Endocrinology of Sleep	NHLBI	1K24HL138632-03	LIU, PETER YIWEN	LA BIOMED RES INST/ HARBOR UCLA MEE	\$119,586
P1: Novel Targeted Strategies for Prevention and Conservative Managemen	NCI	3P50CA098258-15	LU, KAREN HSIEH	UNIVERSITY OF TX MD ANDERSON CAN C	\$275,298
Mediators of metabolic decline with the loss of gonadal function	NIA	9U54AG062319-08	MACLEAN, PAUL S.	UNIVERSITY OF COLORADO DENVER	\$244,857
StoP STRokE: Sex-Specific Prevention of Stroke Through Reproductive Risk	NHLBI	1K23HL140081-03	MADSEN, TRACY	RHODE ISLAND HOSPITAL	\$192,985
How age-dependent alterations in meiotic recombination cause chromoso	NICHHD	5R01HD098129-02	COLE, FRANCESCA	UNIVERSITY OF TX MD ANDERSON CAN C	\$394,264
Contribution of estrogen receptor beta to changes in hypothalamic plastici	NHLBI	5R01HL136520-04		WEILL MEDICAL COLL OF CORNELL UNIV	\$423,750
Perimenopause in APOE4 Brain: Clinical Outcomes and Global Impact	NIA	5P01AG026572-15	MOSCONI, LISA	UNIVERSITY OF ARIZONA	\$454,011
Placenta specific and ribosomal RNA genes: structure and function	NIA	12ZIAAG000646-23	NAGARAJA, RAMAIAH		\$924,081
A systems biology approach to identifying the mechanisms of sex hormone	NHLBI	1R61HL141794-02	NEEVES, KEITH B	COLORADO SCHOOL OF MINES	\$646,004
Regulation of mechanosensitive K+ channels in detrusor smooth muscle b	NIDDK	1R01DK119491-03	SANDERS, KENTON M	UNIVERSITY OF NEVADA RENO	\$421,040
Oxidative Stress; Hormones and Women s Health	NICHHD	12IAHD008762-18	SCHISTERMAN, ENRIQUE		\$141,948
Toxicant disruption of receptor-mediated endocytosis in oogenesis and lat	NIHNS	5R01ES028201-04	TIMME-LARAGY, ALICIA R	UNIVERSITY OF MASSACHUSETTS AMHER	\$385,405
Ovarian Epithelial Cancer Progenitor Cell Population	NCI	1R01CA230916-01	XU, XIANGXI MIKE	UNIVERSITY OF MIAMI SCHOOL OF MEDI	\$351,131
Ovarian Epithelial Cancer Progenitor Cell Population	NCI	1R01CA230916-03	XU, XIANGXI MIKE	UNIVERSITY OF MIAMI SCHOOL OF MEDI	\$157,823
Pittsburgh Pelvic Floor Research Program	NICHHD	5UG1HD069006-10	ZYCZYNSKI, HALINA M	MAGEE-WOMEN'S RES INST AND FOUND	\$245,229

2021 NIH Total Budget (millions)		42,936		TOTAL FUNDING	\$86,675,145	% Female Reproductive Longevity Research - 2021	0.20%
Project Title	Administering IC	Project Number	Contact PI / Project Lead	Organization Name	FY Total Cost	FY Total Cost (Sub Projects)	
A Longitudinal Study of Endocrine Disruptor Mixtures and Reproductive Aging	NIHES	5R01ES026964-05	PARK, SUNG KYUN	UNIVERSITY OF MICHIGAN AT ANN ARBOR	\$265,149		
Interaction of estrogen, age, and activity on musculoskeletal strength in females	NIA	5R01AG031743-13	LOWE, DAWN A	UNIVERSITY OF MINNESOTA	\$475,480		
Unscrambling Eggs: TAF4B and Transcriptional Regulation of Meiosis I in Mouse Oocytes	NICHD	5F31HD097933-03	GURA, MEGAN A	BROWN UNIVERSITY	\$46,036		
Protein Sumoylation in OOCYTE Development	NICHD	5R01HD085994-05	PANGAS, STEPHANIE A.	BAYLOR COLLEGE OF MEDICINE	\$322,310		
Homeostatic to reactive hyaluronan matrices in ovarian reproductive aging	NICHD	5R01HD093726-04	DUNCAN, FRANCESCA E	NORTHWESTERN UNIVERSITY AT CHICAGO	\$317,976		
Study of Ovarian Aging and Reserve in Young Women (SOAR)	NICHD	5R01HD088638-04	MARSH, ERICA E	UNIVERSITY OF MICHIGAN AT ANN ARBOR	\$605,403		
Longitudinal Evaluation of Ovarian Aging and Cardiovascular Risk	NIA	5R01AG053332-04	CEDARS, MARCELLE IVON	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	\$1,504,780		
Hyperandrogenemia, Diet and Female Reproductive Health	NICHD	5P50HD071836-09	HENNEBOLD, JON D	OREGON HEALTH & SCIENCE UNIVERSITY	\$1,652,887		
Defining Mechanisms of Ovarian Rescue	NICHD	5R01HD090050-05	CAPEL, BLANCHE	DUKE UNIVERSITY	\$320,460		
Methods of fertility protection by Mullerian inhibiting substance in the female reproductive tract	NICHD	5R01HD102014-02	PEPIN, DAVID	MASSACHUSETTS GENERAL HOSPITAL	\$361,443		
Project 1: Oocyte Developmental Competence and Aging	NICHD	5P50HD055764-14	CONTI, MARCO	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	\$384,442		
Genetics and Genomics of the Ovarian Reserve and Female Fertility	NICHD	5R01HD093778-04	BOLCUN-FILAS, EVELINA	JACKSON LABORATORY	\$412,306		
Ovarian Structure-Function: Influence of Androgen and Diet	NICHD	5P50HD071836-09	HENNEBOLD, JON D	OREGON HEALTH & SCIENCE UNIVERSITY	\$176,864		
Melanocortin 3 receptor in neural circuits linking reproductive state and metabolism	NIDDKD	5F32DK123879-02	BEDENBAUGH, MICHELLE	VANDERBILT UNIVERSITY	\$66,390		
The Role of FOS in the Ovary	NICHD	5R01HD096077-03	JO, MISUNG	UNIVERSITY OF KENTUCKY	\$404,964		
FSH - an Aging Hormone?	NIA	5U19AG060917-03	ZAIDI, MONE	ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI	\$2,306,306		
Menopausal Vasomotor Symptoms and Brain Aging in Women	NIA	2R01AG053504-02	THURSTON, REBECCA	UNIVERSITY OF PITTSBURGH AT PITTSBURGH	\$780,959		
Statistical Modeling of Human Fecundity	NICHD	12IADH08883-13	SUNDARAM, RAJESHWAR	NICHD	\$3,232		
Center for Research, Innovation and Training in Reproduction and Infertility	NICHD	5P50HD055764-14	GIUDICE, LINDA C	UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	\$1,463,230		
Novel regulation of early follicle formation	NICHD	5R01HD093887-03	ROY, SHYAMAL K.	UNIVERSITY OF NEBRASKA MEDICAL CENTER	\$317,581		
Maternal Exposure to Air Pollution and Early Pregnancy Outcomes	NIHES	5R00ES026648-05	GASKINS, AUDREY JANE	EMORY UNIVERSITY	\$237,663		
Reproductive Endocrinology And Infertility Clinical Training Program	NICHD	12IEHD080737-21	DECHERNEY, ALAN	NICHD	\$1,767,334		
PIWI proteins and PIWI-interacting small RNAs guard the genomic integrity of germ cells	NIDDKD	12IADK075111-07	HAASE, ASTRID	NIDDKD	\$1,516,756		
Peri-menopause as a neurological transition state that triggers Alzheimer's disease onset	NIA	3R21AG064455-01A1S1	MARONGIU, ROBERTA	WELL MEDICAL COLL OF CORNELL UNIV		127125	
Peri-menopause as a neurological transition state that triggers Alzheimer's disease onset	NIA	5R21AG064455-02	MARONGIU, ROBERTA	WELL MEDICAL COLL OF CORNELL UNIV	254250		
Peri-menopause as a neurological transition state that triggers Alzheimer's disease onset	NIA	3R21AG064455-02S1	MARONGIU, ROBERTA	WELL MEDICAL COLL OF CORNELL UNIV		83155	
Predicting Fast Bone Mineral Density Decline and Fracture Across the Menopause Transition	NIAMS	5R01AR057529-02	SHIEH, ALBERT	UNIVERSITY OF CALIFORNIA LOS ANGELES	\$414,850		
Impact of Menopause on the Aqueous Outflow Pathway	National eye Institute	5R01EY030871-02	FEOLA, ANDREW J	GEORGIA INSTITUTE OF TECHNOLOGY	\$372,770		
The Study of Women's Health Across the Nation (SWAN): The Impact of Midlife and the Menopause	NIA	3U19AG063720-02S1	BROOKS, MARIA MORI	UNIVERSITY OF PITTSBURGH AT PITTSBURGH		\$315,983	
The Study of Women's Health Across the Nation (SWAN): The Impact of Midlife and the Menopause	NIA	5U19AG063720-02	BROOKS, MARIA MORI	UNIVERSITY OF PITTSBURGH AT PITTSBURGH	\$1,145,077		
Primary Ovarian Insufficiency: Etiology and Comorbid Disease	NICHD	5R01HD099487-03	WELT, CORRINE K	UNIVERSITY OF UTAH	\$317,581		
Impact of Reproductive Aging on the Functional and Structural Architecture of the Human Ovary	NIA	1F31AG074634-01	PRITSCHET, LAURA	UNIVERSITY OF CALIFORNIA SANTA BARBARA	\$38,420		
Environmental Effects On Fertility	NIHES	12IAES049003-32	BAIRD, DONNA D.	NIHES	\$35,911		
Physiological and social stressors and health during menopausal transition	NIA	5U54AG062322-02	OKEN, EMILY	BRIGHAM AND WOMEN'S HOSPITAL	\$361,200		
The regulation of ovarian aging by H19 and let-7	NICHD	5R01HD101475-02	KALLEN, AMANDA NICOLI	YALE UNIVERSITY	\$365,263		
Dynamic Regulation of the Ovarian Reserve	NICHD	5R01HD091848-04	FREIMAN, RICHARD NEIL	BROWN UNIVERSITY	\$411,427		
Understanding the relationship between female reproductive span and dementia risk	NICHD	1R21AG074212-01	PANIZZON, MATTHEW S	HARVARD PILGRIM HEALTH CARE, INC.	\$226,840		
MECHANISMS UNDERLYING THE AGE-RELATED ATHEROPROTECTIVE EFFECTS OF HORMONAL THERAPY	NIA	5R01AG059690-04	HODIS, HOWARD N	UNIVERSITY OF SOUTHERN CALIFORNIA	\$724,027		
Steroid signaling in the choroid plexus of the aging brain	NIA	1R03AG070755-01	LISHKO, POLINA V	UNIVERSITY OF CALIFORNIA BERKELEY	\$357,104		
A lifecycle approach to women's cardiometabolic and bone health: from fertility to peri-menopause	NICHD	5R01HD096032-03	OKEN, EMILY	HARVARD PILGRIM HEALTH CARE, INC.	\$665,492		
Omics of Pain in the Context of Declining Estrogen	NINR	5K99NR019080-02	WAGNER, MONICA ANN	UNIVERSITY OF PITTSBURGH AT PITTSBURGH	\$94,770		
Functions of the rete ovarii in ovary development, adult homeostasis, and female reproductive health	NICHD	1K99HD103778-01A1	MCKEY, JENNIFER C	DUKE UNIVERSITY	\$103,443		
FASEB's The Reproductive Aging Conference	NIA	1R13AG072858-01	GARRISON, JENNIFER L	FEDERATION OF AMER SOC FOR EXPER BIOL	49000		
Epigenetic regulation of extreme longevity differences in ant castes	NIA	5R01AG055570-05	BERGER, SHELLEY L	UNIVERSITY OF PENNSYLVANIA	\$389,410		
Role of the transcription elongation and splicing factor TCER-1 in repressing immunity at the menopause	NIA	1R56AG066682-01A1	GHAZI, ARIUMAND	UNIVERSITY OF PITTSBURGH AT PITTSBURGH	\$320,825		
The role of neural signaling pathways in costs of reproduction on aging	NIA	5R01AG063371-03	PLETCHER, SCOTT	UNIVERSITY OF MICHIGAN AT ANN ARBOR	\$376,081		
Metabolic Regulators of Corpus Luteum Function	NICHD	5R01HD092263-05	DAVIS, JOHN S	UNIVERSITY OF NEBRASKA MEDICAL CENTER	\$304,148		
Center for Stress and Neural Regulation of Reproductive Aging Health Outcomes	NIA	5U54AG062322-02	JOFFE, HADINE	BRIGHAM AND WOMEN'S HOSPITAL	\$1,741,691		
Sex-Specific Aging Mechanisms	NIA	5R01AG057741-04	TOWER, JOHN GERARD	UNIVERSITY OF SOUTHERN CALIFORNIA	\$371,250		
Origins and Functions of Mammalian Female Germline Stem Cells	NIA	5R01AG012279-25	TILLY, JONATHAN LEE	NORTHEASTERN UNIVERSITY	\$317,176		
Defining the programmed proteome rejuvenation underlying gametogenesis	NIA	1R01AG071869-01A1	BRAR, GLORIA ANN	UNIVERSITY OF CALIFORNIA BERKELEY	\$583,678		
Elucidating Cellular Aging and Quality Control Pathways through Meiotic Differentiation	NIA	1R01AG071801-01A1	UNAL, ELCIN	UNIVERSITY OF CALIFORNIA BERKELEY	\$377,137		
Insulin-Resistance Genetic and Epigenetic Variants and Their Interactions with Lifestyle	NINR	5K01NR017852-03		UNIVERSITY OF CALIFORNIA LOS ANGELES	96376		
Improving Health Care for Women Veterans: Addressing Menopause and Mental Health	VA	5IK2HX002402-03		VETERANS AFFAIRS MED CTR SAN FRANCISCO			
Improving Health Care for Women Veterans: Addressing Menopause and Mental Health	VA	5IK2HX002402-04		VETERANS AFFAIRS MED CTR SAN FRANCISCO			
Impact of Aging on Mucosal Immune Protection in the Female Reproductive Tract	NIA	5R01AG064794-03		DARTMOUTH COLLEGE	478093		
Impact of Aging on Mucosal Immune Protection in the Female Reproductive Tract	NIA	5R01AG064794-04		DARTMOUTH COLLEGE	424709		
Improving Health Care for Women Veterans: Addressing Menopause and Mental Health	VA	5IK2HX002402-03		VETERANS AFFAIRS MED CTR SAN FRANCISCO			
Improving Health Care for Women Veterans: Addressing Menopause and Mental Health	VA	5IK2HX002402-04		VETERANS AFFAIRS MED CTR SAN FRANCISCO			
Interplay of Sex Hormones and Chromosomes in Vascular Oxidative Stress and Arterial Stiffness	NHLBI	1K99HL155841-01		TULANE UNIVERSITY OF LOUISIANA	85040		
Hot Flashes and Neurovascular Function in Women	NHLBI	1K01HL148144-01A1		MAYO CLINIC ROCHESTER	162630		
Mechanisms of Vascular Dysfunction with Advancing Reproductive Age	NHLBI	5R01HL146558-03		UNIVERSITY OF DELAWARE	451479		
A SYSTEMS BIOLOGY APPROACH TO IDENTIFYING THE MECHANISMS OF SEX HORMONE ACTION IN VASCULAR DYSFUNCTION	NHLBI	5R33HL141794-04		UNIVERSITY OF COLORADO DENVER	608149		
Identifying and Targeting Unique Physical Activity Determinants for Midlife Women	NHLBI	5K23HL136657-05		ROWAN UNIVERSITY	154270		
Eliciting Estrogen's Protective Vascular Effects	NHLBI	5R01HL133619-05		TULANE UNIVERSITY OF LOUISIANA	426766		
Hypothalamic Amenorrhea as a Fertility Status Marker for Cardiovascular Health	NICHD	1R01HD106096-01		CEDARS-SINAI MEDICAL CENTER	766614		
Oocyte genomic instability as a driver of the aging ovarian innate immune response	NICHD	1R01HD105752-01		NORTHWESTERN UNIVERSITY AT CHICAGO	530290		
Restoring Germine Potential to Patients Diagnosed with Primary Ovarian Insufficiency	NICHD	1F32HD105439-01		UNIVERSITY OF CALIFORNIA LOS ANGELES	66390		
Fertility and TAF4b: Transcriptional Regulation of Murine Ovarian Reserve Establishment	NICHD	1F31HD105340-01		BROWN UNIVERSITY	46036		
Whole Ovary Vitrification for Fertility Preservation	NICHD	5R44HD104531-02	TING, ALISON Y	21ST CENTURY MEDICINE, INC.	721067		
Female Reproductive Tissue Mapping Center	NICHD	5U54HD104393-02	LAURENT, LOUISE CHANG	UNIVERSITY OF CALIFORNIA, SAN DIEGO	600000		
Optimized protocols for ovarian tissue cryopreservation and novel modRNA-based approaches	NICHD	1R21HD103956-01A1		WELL MEDICAL COLL OF CORNELL UNIV	231677		
FSH Glycoforms and Ovarian Signaling Pathways	NICHD	1R01HD103384-01A1		UNIVERSITY OF COLORADO DENVER	582464		
Translational Control in Oogenesis and Embryogenesis	NICHD	5R01HD100447-02		UNIVERSITY OF UTAH	321317		
Reproductive Medicine Collaborative Consortium: a randomized placebo-controlled trial	NICHD	5R01HD100369-03		YALE UNIVERSITY	347239		
Infertility History and Chronic Disease Profile	NICHD	5R01HD096033-03		MICHIGAN STATE UNIVERSITY	627363		
Androgen Excess Polycystic Ovary Syndrome Society Meeting	NICHD	2R13HD089669-04		UNIVERSITY OF PENNSYLVANIA	10000		
Role of neuroestradiol in regulation of the GnRH surge	NICHD	5R01HD089495-04		UNIVERSITY OF WISCONSIN-MADISON	394288		
Hormones and Genes in Women's Health: From Bench to Bedside	NICHD	5K12HD051959-17	GOLDSTEIN, JILL M	BRIGHAM AND WOMEN'S HOSPITAL	90000		
Hormones and Genes in Women's Health: From Bench to Bedside	NICHD	5K12HD051959-17	GOLDSTEIN, JILL M	BRIGHAM AND WOMEN'S HOSPITAL	307995		
Oxidative Stress, Hormones and Women's Health	NICHD	12IAHD080762-19		EUNICE KENNEDY SHRIVER NATIONAL INST	138995		
Dietary Supplements and Inflammation Phase-2 (Metabolic Mechanisms and Interventional Studies)	NIGMS	3P20GM103641-09S1		UNIVERSITY OF SOUTH CAROLINA AT COL	137937		
Extreme weather, air pollution, and stroke among an aging female population	NIHES	1R01ES033413-01		BECKMAN RESEARCH INSTITUTE/CITY OF	752072		
Metabolic Health Risk Among Mid-Life Women: The Roles of Toxicants, Inflammation, and Mitochondria	NIHES	5R01ES02330-02		UNIVERSITY OF MICHIGAN AT ANN ARBOR	573210		
Pregnancy Exposures to Chemical Mixtures and Later Metabolic Health and Endocrine Function	NIHES	5R01ES023203-02		UNIVERSITY OF MICHIGAN AT ANN ARBOR	397701		
Relating phthalate and metals exposure during pregnancy and perimenopause to bone health	NIHES	5R01ES032202-02		UNIVERSITY OF MICHIGAN AT ANN ARBOR	318165		
An ovary-on-a-chip to identify ovarian toxicity	NIHES	1R01ES032144-01A1		RUTGERS, THE STATE UNIV OF N.J.	354358		
Investigating obesity-induced altered ovarian intracellular signaling	NIHES	5R01ES030341-02		IOWA STATE UNIVERSITY	515089		
Investigating obesity-induced altered ovarian intracellular signaling	NIHES	3R01ES030341-02S1		IOWA STATE UNIVERSITY		32628	
Phthalates and Ovarian Toxicity	NIHES	5R01ES028661-04		UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN	352906		
Environmentally Relevant Phthalate Exposures and Ovarian Function	NIHES	5R01ES026998-05		UNIVERSITY OF ARIZONA	451308		
Developmental Gene-Environment Interactions and Premature Ovarian Failure	NIHES	5R01ES020454-10		UNIVERSITY OF CALIFORNIA-IRVINE	529264		
Role of estrogens in hypothalamic inflammation and metabolic regulation	NIDDK	1R21DK127296-01A1		UNIVERSITY OF WASHINGTON	220625		
Estrogen Administration for the Treatment of NASH in Postmenopausal Women	NIDDK	1R01DK126955-01A1		MASSACHUSETTS GENERAL HOSPITAL	733668		
Resistance Training Modulation of Fat Metabolism in Obese Postmenopausal Women	NIDDK	1R01DK125728-01A1		FLORIDA STATE UNIVERSITY	612050		
The impact of the postmenopausal hormonal milieu on brown fat activity and energy expenditure	NIDDK	2R56DK112260-04A1		UNIVERSITY OF COLORADO DENVER	233250		
Therapeutic Potential of Estrogen-Regulated Metabolism and Cardiovascular Risk	NIDDK	2R01DK109102-07		VANDERBILT UNIVERSITY MEDICAL CENTER	432500		
Steroid Hormone Action in Female Reproduction	NIDDK	12IADK075118-06		NATIONAL INSTITUTE OF DIABETES AND ENDOCRINOLOGY	11240		
Effects of Novel Estrogens on Glucose and Lipids in Postmenopausal Prediabetic Women	VA	1K12C0002225-01A1		SOUTHEAST LOUISIANA VETERANS HEALTH			

Adipose and Lean Soft Tissue Depots, Cancer Risk and Mortality in Postmenopausal Women	NCI	5R01CA253302-02		UNIVERSITY OF ARIZONA	345847		
Brain Health in Breast Cancer Survivors: Interaction of Menopause and Endocrine Therapies	NCI	5K08CA241337-03		UNIVERSITY OF CALIFORNIA LOS ANGELES	184965		
Diminished Sex Hormone Levels Stimulate Production of Inflammatory Bone Marrow-Derived Macrophages	VA	10101BX005335-01		VA EASTERN COLORADO HEALTH CARE SYSTEM			
Signals controlling tissues homeostasis in the ovary	VA	50101BX004272-02		OMAHA VA MEDICAL CENTER			
Estrogen receptor and the cardiovascular system	VA	50101BX002316-07		VETERANS HEALTH ADMINISTRATION			
Inositol Supplementation to Treat Reproductive and Metabolic Dysfunction in Polycystic Ovary Syndrome	NCCIH	5R01AT009484-03		PENNSYLVANIA STATE UNIVERSITY HERSHEY MEDICAL CENTER	527033		
Self-administered hypnosis treatment for the management of hot flashes in women: A randomized controlled trial	NCCIH	3R01AT009384-0551		BAYLOR UNIVERSITY		336872	
Self-administered hypnosis treatment for the management of hot flashes in women: A randomized controlled trial	NCCIH	5R01AT009384-05		BAYLOR UNIVERSITY	670065		
Limited-duration anabolic therapy in postmenopausal osteoporosis	NIAMS	1R21AR07918-01		MASSACHUSETTS GENERAL HOSPITAL	214400		
An ounce of prevention: stopping menopausal bone loss before it starts	NIAMS	1R21AR078538-01		YALE UNIVERSITY	221100		
Effects of DHEA and exercise on bone marrow fat in postmenopausal women	NIAMS	1R01AR077924-01A1		UNIVERSITY OF COLORADO DENVER	406937		
Effects of reproduction and lactation on the functional spinal unit post menopause	NIAMS	5F32AR076906-02		UNIVERSITY OF PENNSYLVANIA	68562		
EFFECTS OF MENOPAUSE TRANSITION ON BRAIN STRUCTURE, FUNCTION, AND COGNITIVE FUNCTION	NIA	1U19AG073585-01		WASHINGTON UNIVERSITY	\$186,073		
Effect of estrogen replacement on postmenopausal ART-associated comorbidity and virulence	NIA	1R01AG071441-01A1		OREGON HEALTH & SCIENCE UNIVERSITY	824709		
Follicle Stimulating Hormone and Bone Loss in Postmenopausal Women	NIA	1F31AG071241-01		STATE UNIVERSITY OF NEW YORK AT BUFFALO	37154		
Brain-selective estrogen therapy for menopausal hot flashes in an advanced translation trial	NIA	1R01AG070072-01		UNIVERSITY OF MARYLAND BALTIMORE	639751		
Regulatory Landscape of the Aging Human Ovary	NIA	5R01AG069750-02		COLUMBIA UNIVERSITY HEALTH SCIENCES	332478		
Role of estradiol and related hormones on inflammation, sleep, and risks for Alzheimer's disease	NIA	5R01AG066203-03		EMORY UNIVERSITY	732007		
Health of the Cholinergic System and Risk for Alzheimer's Disease in Postmenopausal Women	NIA	5R01AG066159-03		UNIVERSITY OF VERMONT & ST AGRICULTURE COLLEGE	1490142		
PGC-1 α , Purines and the Postmenopausal Heart	NIA	1R21AG065923-01A1		BETH ISRAEL DEACONESS MEDICAL CENTER	218750		
Unraveling Mechanisms Driving Female-Specific Osteogenesis after Disrupting a Brain-Tissue Barrier	NIA	5K01AG065916-02		UNIVERSITY OF CALIFORNIA, SAN FRANCISCO	130424		
Understanding the role of menopause and estrogen receptor activation for Alzheimer's disease	NIA	5R01AG065209-02		KAROLINSKA INSTITUTE	469300		
Beta1-selective blockade for prevention of postmenopausal bone loss: A randomized controlled trial	NIA	1R01AG065154-01A1		MAYO CLINIC ROCHESTER	2347808		
Autonomic regulation of blood pressure in premature and early menopausal women	NIA	5K01AG064038-02		UNIVERSITY OF MINNESOTA	131760		
Impact of ovarian hormone suppression on regional and global brain architecture and cognition	NIA	5R01AG063843-02		UNIVERSITY OF CALIFORNIA, SAN DIEGO	957685		
The Study of Women's Health Across the Nation (SWAN): The Impact of Midlife and the Menopause Transition	NIA	3U19AG063720-0252		UNIVERSITY OF PITTSBURGH AT PITTSBURGH		196732	
The Study of Women's Health Across the Nation (SWAN): The Impact of Midlife and the Menopause Transition	NIA	5U19AG063720-02		UNIVERSITY OF PITTSBURGH AT PITTSBURGH	11145077		
The Study of Women's Health Across the Nation (SWAN): The Impact of Midlife and the Menopause Transition	NIA	3U19AG063720-0251		UNIVERSITY OF PITTSBURGH AT PITTSBURGH		100000	
The Study of Women's Health Across the Nation (SWAN): The Impact of Midlife and the Menopause Transition	NIA	3U19AG063720-0251		UNIVERSITY OF PITTSBURGH AT PITTSBURGH		215983	
Sex Hormones, Aging, Alzheimer's Disease and Other Neurodegenerative Diseases in Women	NIA	5F32AG063442-03		UNIVERSITY OF CALIFORNIA LOS ANGELES	80475		
Bioenergetic and metabolic consequences of the loss of ovarian function in women	NIA	5U5AAG062319-09		UNIVERSITY OF COLORADO DENVER	\$447,029		
Compositional and Functional Alterations of HDL Over Ovarian Aging	NIA	5R01AG058690-04		UNIVERSITY OF PITTSBURGH AT PITTSBURGH	451501		
Improving the Health of Aging Women and Men	NIA	5F32AG058529-03		UNIVERSITY OF CALIFORNIA, SAN DIEGO	279995		
Modelling ovarian aging phenotype in mechanically tuned 3D matrices	NIA	5F30AG058387-04		NORTHWESTERN UNIVERSITY AT CHICAGO	41686		
The Aging Pituitary/Gonadal Axis	NIA	5P01AG029531-10		WICHITA STATE UNIVERSITY	1717046		
Variations in Hormones During Menopause: Effects on Cognitive and Brain Aging	NIA	5R01AG028084-14		ARIZONA STATE UNIVERSITY-TEMPE CAMPUS	323323		
Perimenopause in Brain Aging and Alzheimer's Disease	NIA	2P01AG026572-16		UNIVERSITY OF ARIZONA	3042893		
Nurses Health Study 3: A multiple exposure environmental epidemiology cohort of young women	NIHES	5R24ES028521-04	LADEN, FRANCINE	HARVARD SCHOOL OF PUBLIC HEALTH	\$397,364		
Mentorship in the Endocrinology of Sleep	NHLBI	1K24HL138632-04	LIU, PETER YIWEN	LA BIOMED RES INST/ HARBOR UCLA MEDICAL CENTER	\$119,586		
Mediators of metabolic decline with the loss of gonadal function	NIA	9U5AAG062319-09	MACLEAN, PAUL S.	UNIVERSITY OF COLORADO DENVER	\$247,683		
StoP STrokE: Sex-Specific Prevention of Stroke Through Reproductive Risk Factors and Sex Hormones	NHLBI	1K23HL140081-04	MADSEN, TRACY	RHODE ISLAND HOSPITAL	\$183,203		
How age-dependent alterations in meiotic recombination cause chromosome mis-segregation	NICHHD	5R01HD098129-03	COLE, FRANCESCA	UNIVERSITY OF TX MD ANDERSON CANCER CENTER	\$394,264		
Placenta specific and ribosomal RNA genes: structure and function	NIA	12IAAG000646-24	NAGARAJA, RAMAIAH		\$1,005,270		
A systems biology approach to identifying the mechanisms of sex hormone induced transcriptional changes	NHLBI	1R61HL141794-04	NEEVES, KEITH B	COLORADO SCHOOL OF MINES	\$608,149		
The relation of migraine to daily hormone patterns and menopausal stage	NIA	5K23AG049466-05	PAVLOVIC, JELENA	ALBERT EINSTEIN COLLEGE OF MEDICINE	\$169,228		
Regulation of mechanosensitive K ⁺ channels in detrusor smooth muscle by estrogen	NIDDK	1R01DK119491-04	SANDERS, KENTON M	UNIVERSITY OF NEVADA RENO	\$421,040		
Oxidative Stress; Hormones and Women's Health	NICHHD	12IAHD008762-19	SCHISTERMAN, ENRIQUE		\$138,995		
Toxicant disruption of receptor-mediated endocytosis in oogenesis and later life metabolism	NIHES	5R01ES028201-05	TIMME-LARAGY, ALICIA R	UNIVERSITY OF MASSACHUSETTS AMHERST	\$384,737		
Ovarian Epithelial Cancer Progenitor Cell Population	NCI	1R01CA230916-04	XU, XIANGXI MIKE	UNIVERSITY OF MIAMI SCHOOL OF MEDICINE	\$556,445		
Pittsburgh Pelvic Floor Research Program	NICHHD	5UG1HD069006-11	ZYCZYNSKI, HALINA M	MAGEE-WOMEN'S RES INST AND FOUNDATION	\$251,266		

