

25

YEARS
OF AGING
RESEARCH

American Federation for Aging Research

AFAR Grant Recipients — 1981-2005

Celebrating A Quarter Century of Research

The American Federation for Aging Research (AFAR) is a nonprofit organization whose mission is to support biomedical research on aging. We fulfill this mission by:

- Supporting biomedical research that furthers our understanding of the aging process and its associated diseases and disorders;
- Offering opportunities for scientists and physicians to exchange new ideas and knowledge about aging;
- Building a cadre of early career scientists in aging research and in the practice of geriatric medicine; and
- Promoting awareness among the general public about the importance of aging research.

Since 1981, AFAR has awarded nearly \$87 million to more than 2,100 early to mid-career investigators and students, with the goal of encouraging more of the nation's scientists and physicians to enter and stay in the fields of gerontology and geriatric medicine. These scientists are conducting cutting-edge research on aging and age-related diseases, such as Alzheimer's, cancer, osteoporosis, diabetes and heart disease. Support for AFAR grants comes from the generous contributions of corporations, foundations and individuals. For more information about AFAR, please visit our organizational website, www.afar.org. For more information about aging research and staying healthy as you age, please visit our consumer websites, www.Infoaging.org and www.HealthCompass.org.

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Letter from the Executive Director 25th Anniversary Grantee Directory

The American Federation for Aging Research (AFAR) is pleased to present its 25th anniversary grantee directory, highlighting all of the recipients of AFAR research grants and AFAR-administered grants programs to date.

We are proud to have supported more than 2,100 early-career investigators and medical students — the best and the brightest scientific minds in the nation — with funding of nearly \$87 million. These grant recipients have made major inroads in our understanding of how and why we age, leading to important discoveries about how age-related diseases and disorders can be prevented or stalled.

From telomeres to stem cell research to the search for longevity genes, during the last 25 years, research on aging has yielded substantial breakthroughs, helping to identify the rates of aging in species and the susceptibility of disease, improving healthspan as well as lifespan.

We thank our esteemed review committee members and the many supporters who have made what we do possible. A full listing of review committee members and supporters is contained in this directory.

A special acknowledgment and dedication of this publication goes to our dedicated board member Dorothy Dillon Eweson, who died in June 2005. Dorothy was an early advocate for research in aging, supporting AFAR programs that have enabled scientists to pursue and sustain careers in the field, including an endowed lecture series that allows AFAR researchers to present their findings at annual scientific or medical specialty association meetings. We are grateful for her longstanding commitment and generosity.

At a time of limited funding for research on aging coupled with a burgeoning aging population, AFAR's support is as critical as ever. As we celebrate 25 years of supporting great minds in science, we renew our commitment to helping even more scientists gain a foothold in the area of aging research.



Stephanie Lederman

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AFAR's committees are comprised of experts in aging research and related areas of research who volunteer their time and expertise to the AFAR review processes. Their dedication, enthusiasm and commitment is crucial to the success of AFAR's grant programs.

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Orexin Regulation of the Basal Forebrain Cholinergic System in Aged Rats

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Modeling Changes in Myogenic Progenitor Potential with Age

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Role of the Presenilin-1/ β -secretase Cleavage of E-Cadherin in Adherens Junction Functions

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Will Reduced Level of PHGPx (GPx4) in Brain Facilitate the Formation of Amyloid Plaques?

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Molecular Analysis of Synaptopodin Gene: A Possible Genetic Link with Late-onset Alzheimer's Disease

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The Effect of Testosterone Treatment on Depressive Symptoms and Quality of Life in Older Men with Age-associated Hypogonadism and Subsyndromal Depression

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The Impact of Osteoporotic Fractures on Physical Function and Quality of Life Among the Elderly

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The Genetic Basis of Modification of Lifespan by an Individual's Life History in Drosophila melanogaster

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Consequences of Werner Helicase Gene Mutations on Expression of its mRNA and Protein

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Neuroanatomical Alterations in Hippocampal Pathways Associated with Learning and Memory Deficits in Aged Rats

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Cellular Mechanisms Underlying Visceral Obesity in Postmenopausal Women: Effects of Weight Loss

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Influence of Serotonin on Nutritional Status in Aging

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NGF Transport and trk Expression in Aged Rat Towards a Novel Therapy for Age-related Cognitive Decline

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Prevention of the Loss of Auditory Neurons in a Mouse Model of Presbycusis (C57B1) Strain by Neurotrophin-3 (NT-3) Administration to the Inner Ear via a Viral Vector [HSV Ni31ac]

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Molecular Mechanisms of Age-associated Interleukin-6 Dysregulation in Postmenopausal Osteoporosis

Mark Tatar, Ph.D.
University of Minnesota
Mapping Genes for Mortality with Transposable Element Markers in Drosophila melanogaster

Darryl G. Thelen, Ph.D.
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Mechanisms of Balance Recovery during Falls: Age Effects

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Regulation of Alzheimer β -Amyloid Metabolism by Signal Transduction

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Apoptosis and Aging in Drosophila

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DNA Repair and Mutations in Relation to Aging in a New LacZ Plasmid-based Transgenic Mouse Model

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University of Utah
Genetic Variation at Antioxidant Loci, Age Upon Diagnosis of First Tumor, and Human Longevity

Beth Ann Derfus, M.D.
Medical College of Wisconsin
Prevention of the Destructive Calcium Crystal Arthritides of Aging

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University of Pennsylvania
Working Memory in Normal Human Aging

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Low Levels of Energy Expenditure in Older African-American Women: A Predisposing Factor in the Development of Obesity?

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The Effects of Nitric Oxide on Cartilage In Vitro and In Vivo: Implications for Arthritis

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Age-associated Susceptibility to Muscle Injury: Relationship to Muscle Stiffness and Collagen Cross-linking

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Aging and Neural Plasticity: Regulation of Cytoskeletal Proteins

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Control of Gene Expression during Aging

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Telomere Organization and Aging

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Interactions of Aging and Estrogen on Osteoblast Function

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Analysis of Nucleotide Excision Repair Defect in Hutchinson-Gilford Progeria

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University of Michigan Medical Center
Frequency and Expansion Potential of Post-thymic T Stem Cells from Aged Mice

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Changes with Aging in Cyclic AMP-dependent Synaptic Transmission and Synaptic Plasticity in Rat Hippocampus

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Age-related Alteration in Retinal Pigment Epithelial Metabolism - Significance to Age-related Macular Degeneration

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Analysis for ApoE Mutations Affecting the Risk of Alzheimer's Disease

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Artificial Antibodies for Diagnosis and Treatment of Alzheimer's Disease

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Consequences of Age-dependent Loss of the DNA Repair Protein O6-Methylguanine-DNA Methyltransferase in Human Brain

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Markers of Oxidative Stress in Aging and Neurodegenerative Disease

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Effect of Age and Hypertension on Baroreflex-mediated Autonomic Outflow

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A Pilot Study of D-cycloserine in Alzheimer's Disease

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Motor Correlates of Striatal Dopamine Transporter Binding with [123I] B-CIT SPECT in Older Adults

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Production of Transgenic Mice Overexpressing Catalase and Superoxide Dismutase: A Model to Test the Free Radical Theory of Aging

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Female Sex Hormones Prevent Age-induced Cardiovascular Dysfunction

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T-cell Receptor Repertoire in CD4-CD8-Peripheral T-cells from Aged Mice

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Age-related Changes in Inflammatory Cytokine Expression in the Brain

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The Effects of Myocardial Ischemia on the Cardiac Sympathetic Nervous System of the Aging Heart

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Phosphorylation of Tau Protein in Identified Lamprey Neurons: A Cellular Model for the Cytopathology of Alzheimer's Disease

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Does Caloric Restriction Alter Transcription of Specific Genes at the Level of Transcription Factors?

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Matrix Metalloproteinases in Bone Stromal Cells

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Growth Hormone Releasing Hormone Transcriptional Regulation in Aging

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Do Postural Stability Limits Predict Dynamic Balance Responses?

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Effects of Aging on Voltage-dependent Ion Channels in Myocardial Cells

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A Cellular and Molecular Analysis of Osteoblast Differentiation

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Stimulation of Growth of the Prostatic Stroma by the Prostatic Epithelium: A Possible Role for a Paracrine Pathway in the Development of BPH

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A Quantitative Approach to Inorganic Pyrophosphate Metabolism

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The Role of TWIST in Controlling Type II Collagen Gene Expression in Chondrocytes and the Development of Osteoarthritis

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TGF- β 1 and the Microglial Response to Aging

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Aging & Vascular Pharmacology of Adenosine

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Aging and Immune Function Role of Transcription Factor NF κ B

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Pathogenesis of Esophageal Dysmotility in the Elderly

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Enhancing the Vascularization of Orbital Bone Substitutes: A Model for the Study of Changes in Angiogenesis and Aging

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Age-related Loss of Immunoglobulin Diversity & the Role of RAG-1 in the Bone Marrow Lymphocytes of Elder Mice

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Synthesis of CuZnSOD Mimics as Potential Probes of Age-related Oxidative Damage

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Neurotrophins Rescue of Apoptotic Neural Cells

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Mechanisms of Age-related Impairment of Endothelial Function

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Johns Hopkins University
The Molecular Basis of Female Reproductive Aging & Menopause

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Influence of Estrogen on High Affinity Choline Uptake during Aging

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University of Michigan
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Washington University School of Medicine
Transplantation of Retinal Pigment Epithelium

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McLean Hospital
Molecular Characterization of Glutamate Receptor Subunits in Neurodegeneration

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Veterans Affairs Medical Center, West Los Angeles
The Role of EGR-1 in Prostaglandin E2 Mediated Signal Transduction and Proliferation of Osteoblastic Cells

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Neurobehavioral Relations of the Senescent Hippocampus

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Estrogen-dependent Gene Expression in the Aging Brain

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Alterations in the Synaptic Organization of the Inferior Colliculus of Aging Fischer 344 Rats

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A Molecular Genetic Approach to Efficient Life Maintenance

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Characterization of an Alternate Pathway for Telomere Maintenance and its Role in Cellular Senescence

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Baylor College of Medicine
Establishment of an Experimental Model to Study the Development of Hormone Unresponsive Prostate Cancer

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Calcium-containing Crystal Deposition Arthritis and Aging

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University of Michigan
Aging and Parathyroid Hormone (PTH) Function: Effects of Estrogen on PTH Receptors in Bone

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University of Wisconsin
Aging Calorie Restriction and the Immune Response to Viral Infection

Mohammad A. Pahlavani, Ph.D.
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Does Caloric Restriction and/or Dehydroepiandrosterone Therapy Alter the Age-related Decline in HSP 70 Expression in Lymphocytes?

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Molecular Mechanisms for Altered Adrenergic Responses during Aging: Effects of Chronic Dynamic Exercise on Cardiac Signal Transduction

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Johns Hopkins University
Duplication Scanning of Chromosome 21q22 in Alzheimer's Disease

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Testing the Role of Cysteine Proteinases in the Process of Aging

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University of Arkansas for Medical Sciences
Characterization of Novel Genes Overexpressed in Senescent Human Fibroblasts

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Massachusetts General Hospital
Analysis and Expression of Human Amyloid Precursor-like Protein 2 (APLP2) Gene Transcripts in Alzheimer's Disease and Normal Brains

Huachen Wei, Ph.D.
University of Alabama, Birmingham
Oxidative DNA Damage and Cerebral Aging

David Wilson, Ph.D.
University of Miami
Can Aging and Mortality be Reduced by Blocking the Function of Particular Genes Late in Life?

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Washington University School of Medicine
Role of Glutamine in Skeletal Muscle Protein Synthesis: Is There an Age-related Effect?

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Sequence Specific pKa Measurements of the Amyloid β -Peptide Found in Alzheimer's Disease

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Washington University School of Medicine
Relationship of Bradykinin Receptor Expression to Cellular Senescence in an In Vitro Model of Aging

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University of Wisconsin-Madison
Effect of Interleukin-6 on Bone of Middle-aged and Old Rhesus Monkeys

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University of California, Irvine College of Medicine
Effect of Age on Control of Norepinephrine Release

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Children's Hospital, Boston
A Human Cortical Culture System as a Model for Alzheimer's Disease

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New York Medical College
Mechanical Cell Death Contributes to the Development of Heart Failure in the Aged

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Northeastern Ohio Universities
Age-related Changes in Olfactory Bulb Noradrenergic System: Implications of Neurochemical Correlates of Olfactory Memory-recognition Processes

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McClellan Memorial Veterans Affairs Hospital
Identification and Characterization of Genes that Modulate Lifespan in Caenorhabditis elegans

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University of Texas Health Science Center at San Antonio
TGF- β Family Proteins and Cultured Bone Marrow Stromal Cells from Mature and Aging Rats

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University of Medicine & Dentistry of New Jersey
Effect of Age on Site Density of Intestinal D-glucose Transporters

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Harbor/University of California, Los Angeles Medical Center
The Role of Aging in Erectile Dysfunction: Assessment of the Nitric Oxide Cascade in the Aged Rat Penis

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University of Southern California
Microglial Responses to Injury in Aging Brain

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The Renin-Angiotensin System in Adipose Tissue from Aging Spontaneously Hypertensive Rats

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University of Connecticut Health Center
Regulation of Gene Expression during Aging

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Syracuse University
The Effects of Aging on Multi-frequency Tympanograms

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Medical College of Pennsylvania
Phosphatidylcholine Hydrolysis in the Aging Rat

Bradley T. Hyman, M.D., Ph.D.
Massachusetts General Hospital
Are Nitric Oxide Synthase Neurons Spared in Alzheimer's Disease?

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West Virginia University
Steroid Hormone Effects on Human Osteoblastic Cell Interleukin-1 Production

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Purdue University
Investigation of Age-related Changes in Angiogenesis Using an Intradermal Angiogenesis Assay in Mice

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University of Texas Health Science Center at San Antonio
Oxidant-induced Repression of Mitochondrial Transcription: Testing the Predictions of the Free Radical and Free Radical/Glycation Theories of Aging

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Picower Institute for Medical Research
Age-related DNA Mutations of the Integrated 1a1 Gene in Transgenic Mice

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Colorado State University
Age-related Changes in the Function of Excitatory Amino Acid Receptors

Margaret K. McLaughlin, Ph.D.
Children's Hospital Medical Center, Cincinnati
Interaction between Age and Ovarian Hormones on Resistance Artery Function

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University of Cincinnati College of Medicine
Cellular, Biochemical and Molecular Characterization of the Aging Melanocyte from Human Adult Skin: A Preliminary Approach

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University of Wisconsin
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University of Colorado
Hormonal and Cellular Response to Heavy Resistance Exercise in the Elderly

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Doheny Eye Institute
Retinal Cytoskeletal Alterations in Aging and in Alzheimer's Disease

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University of Connecticut Health Center
The Relationships of Bone Turnover and Bone Loss in Women 70 Years and Older

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Cornell University Medical College
Age-related Arterial Intimal Hyperplasia

Ann K. Rosenthal, M.D.
Medical College of Wisconsin
Aging, TGF β and CPPD Crystal Deposition Disease

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University of Mississippi Medical Center
Human Aging and Leukocyte Senescence

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Case Western Reserve University
Pentosidine as a Biomarker for Cellular Aging of Human Skin Fibroblasts in Culture

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Harvard Medical School
Role of Phosphorylation in the Dynamics of Brain Spectrin in Aging Neurons

Julie K. Staley, Ph.D.
University of Miami School of Medicine
Characterization of the Galanin Receptor in the Human Brain Throughout the Lifespan and in Dementia

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Mount Sinai School of Medicine
Dendritic Protein Synthesis in the Aging Rat Brain

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Wayne State University School of Medicine
Cytoskeletal Proteins of the Aging Brain

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New Subsets of T-cells in Old Mice - Differential Expression of P-glycoprotein

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Effects of Aging on Regulation of Overload-induced New Muscle Fiber Formation and Myosin Expression

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The Role of EGF and bFGF Gene Expression in the Maintenance and Neurodegeneration of Mesostriatal Dopamine Neurons

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University of Arizona
Aging, Malnutrition and Pancreatic Function

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Sinai-Samaritan Medical Center
The Role of T-cell and Accessory Cell-derived Cytokines in the Decreased Specific Humoral Immune Response of Aging

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*Expression of Calcium-activated Neutral
Proteases in an Age-related Model of Spinal
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*Mechanisms of Altered Glucose Metabolism
with Chronic Growth Hormone Treatment in
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Substantia Nigra*

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Genes during Terminal Differentiation*

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*A Simplified Diagnostic Strategy for Benign
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Scripps Clinic, La Jolla
Subsets of CD4+ T-cells in Aging Mice

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*Omega-3 Fatty Acids in Plasma and
Mitochondrial Membranes of Aging
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*A Neuroendocrine Mechanism Potentially
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Age-related Changes in Lymphocyte Adhesion

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An Animal Model of Age-related Hypodipsia

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*Anti-oncogene Expression during Terminal
Differentiation and Cellular Senescence*

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*Retinal Sensitivity Change as a Marker for
Developing Subretinal New Vessel Membranes
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*Age-dependence of the Electrophysiological
Response to Excitotoxicity in the Basal
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*The Effect of Aging on the Role of Insulin
Growth Factor I in Testicular
Steroidogenesis in the Rat*

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*Molecular Basis for the Age-modulated
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*Cerebellar Involvement in Age-related
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*A Simplified Diagnostic Test for
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*Cellular Aging and Proto-oncogene
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*Hematopoietic Progenitors and Aging:
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Expression of BDNF in the Aging Brain

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*Age-related Changes in Bone Cell Signal
Transduction*

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*The Cellular Basis for Age-related Change in
Activation of Helper T Lymphocytes*

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*Effects of Aging on the Morphometric
Parameters of Cholinergic Neurons of the
Nucleus Basalis of Meynert in Man*

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Vitamin D Deficiency in Homebound Elderly

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*Cellular Mechanisms of Age-related Insulin
Resistance in Rat Muscle and Adipose Tissue*

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*Molecular Mechanisms of Myocardial
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*Aging and Antioxidant Enzymes: Adaptation
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*Spontaneous Secretion of Growth Hormone
in Aging Humans*

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*Effect of Potassium Depletion on Blood
Pressure in Elderly*

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*Regulation of the Estrogen Receptor in an
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Opioid Analgesia and Brain Opioid Radioligand Binding in Senescent Rats

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University of Mississippi Medical Center
Mechanisms of Age-dependent Change in Renal Protein Turnover in the Rat

Scott W. Rogers, Ph.D.

Salk Institute for Biological Studies, San Diego
Excitotoxicity in RAT 2 Fibroblasts Stably Expressing a cDNA Encoding a Member of the Glutamate Receptor Family

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Ohio State University
Disinhibition of Cortical Cholinergic Activity and Attenuation of Age-related Attentional Impairments

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Albert Einstein College of Medicine
Alteration of DNA Binding Sites and Proteins in Aging

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University of Michigan
Regulation of Expression of Cathepsin L

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Colorado State University
The Effects of Aging and Exercise on Vascular Reactivity in the Isolated Perfused Rat Hindlimb

David S. Ucker, Ph.D.

Medical Biology Institute, La Jolla
Susceptibility of T-cells to Activation-driven Cell Death: Aging-associated Changes and Autoimmunity

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Age-related Changes in a Central Auditory Structure: A Key to Presbycusis

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Prolactin Rejuvenation of Aged Murine Mucosal Immunity

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Expression of a Senescence-related Gene during Cellular Aging

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Mechanisms of Age-related Memory Deficits

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Studies on Alzheimer's Disease and Long Term Memory Loss in the Hippocampus, In Vivo, Using HSV-1 Vectors

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Purification of a lipophilic hormone regulating C. elegans diapause and aging

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Stanford University
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J. David Gladstone Institutes at the University of California, San Francisco
Identification of Genetic Pathways That Reduce $\alpha\beta$ Toxicity on Neuronal Structures

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University of California, Berkeley
Cognitive Aging: Elucidating the Relationship Between Structure Function and Behavior

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Harvard Medical School
Mitochondrial DNA Repair and Parkinson's Disease

Zhiming Suo, M.D.
Midwest Biomedical Research Foundation
G protein Coupled Receptor Kinase-5 Deficiency, Muscarinic Neurotransmission Dysfunction and Neurofibrillary Degeneration In vitro

2004 Recipients

Zheng-yi Chen, Ph.D.
Massachusetts General Hospital
Hair Cell Regeneration Through Cell Division

Jay M. Edelberg, M.D., Ph.D.
Weill Medical College of Cornell University
Cardiac Myocyte Derivation from Aging Bone Marrow Cells

Biao Zheng, M.D., Ph.D.
Baylor College of Medicine
Overcoming Age-associated Immune Deficiency by Immune Complex Vaccination

2000 Age-related Neurodegenerative Diseases

Azad Bonni, M.D., Ph.D.
Harvard Medical School
Neurotrophin Regulation of Amyloid β -induced Neuronal Degeneration and Cell Death

Frank M. LaFerla, Ph.D.
University of California, Irvine
Molecular Determinants of Presenilins in Intracellular Calcium Signaling Pathways

James Lah, M.D., Ph.D.
Emory University
Normal and Abnormal Function of Presenilin-1 in Endosomes

Glenn C. Telling, Ph.D.
University of Kentucky Medical Center
In Vitro Studies of Human Prions

1999 Cardiovascular Diseases and Aging

Vincent L. Cryns, M.D.
Northwestern University Medical School
Role of Mitochondrial Injury in Ischemic Myocardial Cell Death and Myocardial Aging

Jay M. Edelberg, M.D., Ph.D.
Weill Medical College of Cornell University
Molecular Enhancement of Senescent Cardiac Chronotropy

Roger J. Hajjar, M.D.
Harvard Medical School
Restoration of Diastolic Function in the Senescent Heart by Gene Transfer

Domenico Pratico, M.D.
University of Pennsylvania
In Vivo Isoform-specific Effects of Apolipoprotein E on Advanced Atherosclerosis

AFAR/Pfizer Research Grant

One- to two-year award provided support for junior faculty (M.D.'s and Ph.D.'s) who demonstrated a commitment to the field of aging and addressed specific areas of research that relate to the care of an aging population. Sponsored by Pfizer Inc. This program was active from 1999 to 2003.

2003 Metabolic Control and Late Life Diseases

Yih-Woei C. Fridell, Ph.D.
University of Connecticut Health Center
Mitochondrial Uncoupling and Aging

Mary J. Kelley, Ph.D.
Oregon Health and Science University
Integrin Sensing in Late-onset Glaucoma

Kevin R. Short, Ph.D.
Mayo Clinic, Rochester
Age Effects on Mitochondria: From Gene to Function in Different Tissues

Hong Yang, M.D.
Meharry Medical College
Age-related Increase in the Sensitivity of Endothelial Cells to Oxidized Lipids: The Role of Reactive Oxygen Species

2002 Immunology and Aging

Christopher B. Forsyth, Ph.D.
Rush-Presbyterian-St. Luke's Medical Center
Effect of Aging on Integrin Regulation of MMP-13 in Human Chondrocytes

Lap Ho, Ph.D.
Mount Sinai School of Medicine
Characterizing the Influence of Immune Inflammatory Activities in the Clinical Progression of Alzheimer's Disease Dementia

Laura Anne Vogel, Ph.D.
Illinois State University
Generation of Memory Responses by Aged β -lymphocytes

2001 Hormones and Aging

Anne R. Cappola, M.D.
University of Maryland
Androgens, Myostatin, and Sarcopenia in Older Women

Naibedya Chattopadhyay, Ph.D.
Brigham & Women's Hospital
Anabolic Actions of Ca^{2+} -sensing Receptor in Osteoblastic Cells

Karyn M. Frick, Ph.D.
Yale University
Estrogen Replacement in Middle-aged Female Mice: Implications for the Treatment of Menopausal Women

Joseph M. Zmuda, Ph.D.
University of Pittsburgh
Molecular Epidemiology of Sex Steroid Metabolism Genes and Bone Mass in Afro-Caribbean Men

Paul Beeson Career Development Awards in Aging Research Program

(formerly the Paul Beeson Physician Faculty Scholars in Aging Research Program)

Three- to five-year awards to sustain and promote the research careers of clinically trained individuals who are pursuing research careers in aging. The program is a collaboration between AFAR, the National Institute on Aging (NIA), The John A. Hartford Foundation, The Atlantic Philanthropies, The Starr Foundation, the NIH Office of Dietary Supplements and the Alliance for Aging Research. The Commonwealth Fund was a previous partner in this program.

2005 Scholars

Liana G. Apostolova, M.D.
University of California, Los Angeles
Structural MRI Outcome Predictors in MCI

Malaz A. Boustani, M.D., M.P.H.
Indiana University School of Medicine
Enhancing Care for Hospitalized Older Adults with CI

Jennifer S. Brach, Ph.D.
University of Pittsburgh
Gait Variability: Epidemiology, Assessment & Management

Arleen F. Brown, M.D., Ph.D.
University of California, Los Angeles
Neighborhoods and the Management of Chronic Conditions

Cynthia M. Carlsson, M.D.
University of Wisconsin Medicine School
Effect of Statins on Pathobiology of Alzheimer's Disease

Daniel R. Goldstein, M.D.
Yale University
Strategies to Enhance Immunity in Aging

Wendolyn S. Gozansky, M.D., M.P.H.
University of Colorado Health Sciences Center at Denver
Cortisol Metabolism & Central Adiposity After Menopause

Leanne Groban, M.D.
Wake Forest University School of Medicine
Growth, Angiotensin II, and Cardiac Aging

Arti Hurria, M.D.
Memorial Sloan-Kettering Cancer Center
Can Geriatric Assessment Predict Oncology Outcomes?

Pearl H. Seo, M.D., M.P.H.
Duke University Medical Center
PPARGgamma: Biomarker for Breast Cancer in Older Women

Dellara F. Terry, M.D., M.P.H.
Boston University School of Medicine
Centenarian Offspring and Vascular Disease Resistance

2004 Scholars

Sandy Chang, M.D., Ph.D.
M.D. Anderson Cancer Center at the University of Texas
Telomere-induced Genomic Instability in Premature Aging

Cathleen S. Colon-Emeric, M.D.

Duke University Medical Center
Evidence-based Medicine in the Skilled Nursing Facility

William Dale, M.D., Ph.D.

University of Chicago
Emotions in Medical Decision-making in Older Adults

Lee E. Goldstein, M.D., Ph.D.

Brigham and Women's Hospital/Harvard Medical School
Alzheimer's Disease Beta-amyloid in the Lens

Cary P. Gross, M.D.

Yale University
The Impact of Comorbidity on Older Cancer Patients

John J. Lehman, M.D.

Washington University
Mitochondrial Control by PGC-1 α in Young and Aging Heart

Andrew P. Lieberman, M.D., Ph.D.

University of Michigan
Modifiers of Polyglutamine Toxicity

Atul Malhotra, M.D., Ph.D.

Brigham Women's Hospital/Harvard Medical School
Aging Influence on the Development of Sleep Apnea

Marcin Sadowski, M.D., Ph.D.

New York University School of Medicine
Blocking APOE ϵ β Binding as a Novel AD Therapy

Catherine A. Sarkisian, M.D., M.S.P.H.

University of California, Los Angeles School of Medicine
Intervention to Raise Octogenarians' Walking Levels

Clemens R. Scherzer, M.D.

Brigham & Women's Hospital/Harvard Medical School
Genomic and Genetic Analysis of Parkinson's Disease

Lisa C. Silbert, M.D.

Oregon Health and Science University
White Matter Change and CNS Process in the Elderly

Joe Verghese, M.D.

Albert Einstein College of Medicine
Latent Mobility Abnormalities and Disability

2003 Scholars

Meredith Hawkins, M.D.

Albert Einstein College of Medicine
The Role of Nutrient Excess in Mediating the Insulin Resistance of Aging

Michael C. Irizarry, M.D.

Massachusetts General Hospital - East/Harvard Medical School
Beta-secretase and Alzheimer's Risk with Aging

Kenneth Langa, M.D., Ph.D.

University of Michigan
Long-term Outcomes of Caring for a Disabled Spouse

Sarah H. Lisanby, M.D.

Columbia University College of Physicians and Surgeons
Brain Stimulation and Pharmacological Strategies to Reduce the Cognitive Side Effects of ECT in Geriatric Depression

Jack M. Parent, M.D.

University of Michigan
Stimulation of Endogenous Neural Stem Cells to Promote Recovery after Stroke

Henry L. Paulson, M.D., Ph.D.

University of Iowa
RNA interference (RNAi) as Novel Therapy for Age-related Disease

Elizabeth A. Phelan, M.D.

University of Washington
Improving Primary Care of Older Adults

Wendy S. Post, M.D.

Johns Hopkins University School of Medicine
Vascular Properties and Genetics Associated with Longevity in the Amish

Norman Sharpless, M.D.

University of North Carolina at Chapel Hill
The Role of the Tumor Suppressor P16 ink4a in Mammalian Aging

Michael G. Shlipak, M.D., M.P.H.

University of California, San Francisco
Preventing Heart Failure in Elderly Persons with Chronic Renal Insufficiency

Reisa A. Sperling, M.D., M.M.Sc.

Brigham & Women's Hospital/Harvard Medical School
Investigating the Neural Underpinnings of Memory Impairment in Aging and Early Alzheimer's Disease

2002 Scholars

David J. Casarett, M.D.

University of Pennsylvania School of Medicine
Improving Decision-making about End-of-life Care and Promoting Earlier Referral to Hospice

James E. Galvin, M.D.

Washington University School of Medicine
In Vitro and In Vivo Models of Synucleinopathies

Brad Johnson, M.D., Ph.D.

University of Pennsylvania School of Medicine
Functions of the Werner Syndrome Family of Proteins in Telomerase-deficient Mice and Yeast

Albert R. La Spada, M.D., Ph.D.

University of Washington School of Medicine
Development of Therapies for Polyglutamine Neurodegeneration and Related Disorders

Michael T. Lin, M.D.

Weill Medical College of Cornell University
Mitochondrial DNA Mutations in Aging and Alzheimer's Disease

Robert A. Marciniak, M.D., Ph.D.

University of Texas Health Science Center at San Antonio
Oxidative Stress and Telomere Maintenance: In Vitro and In Vivo Studies

Laura E. Niklason, M.D., Ph.D.

Duke University School of Medicine
Lifespan Extension of Vascular Cells for Tissue Engineering

Michael A. Schwarzschild, M.D., Ph.D.

Harvard Medical School
Sorting Out Clues to Parkinson's Disease: Caffeine, Postmenopausal Estrogen and Addiction

Jurgen Ünlützer, M.D., M.P.H.

University of California, Los Angeles
Neuropsychiatric Institute
Improving Care for Chronic Pain and Late Life Depression

2001 Scholars

Asa Abeliovich, M.D., Ph.D.

Columbia University College of Physicians & Surgeons
Molecular Analysis of the Familial Parkinson Disease Genes Parkin and Alpha-synuclein

Katrin Andreasson, M.D.

Johns Hopkins University School of Medicine
Mechanisms of Cyclooxygenase-2-dependent Neuronal Injury in Aging and Neurodegenerative Disease

Eric A. Coleman, M.D., M.P.H.

University of Colorado Health Sciences Center
Reducing Care Fragmentation Across Sites of Geriatric Care

Jay M. Edelberg, M.D., Ph.D.

Weill Medical College of Cornell University
Restoration of Senescent Cardiac Angiogenic Activity by Bone Marrow Transplantation

Wesley Ely, M.D., M.P.H., F.C.C.P.

Vanderbilt University School of Medicine
The Role of Delirium and Psychoactive Drug Use on Outcomes Following Mechanical Ventilation in Older Persons

Roger J. Hajjar, M.D.

Harvard Medical School
Targeting Signaling Pathways in Aging Hearts by Gene Transfer

James A. Mastrianni, M.D., Ph.D.

University of Chicago School of Medicine
Aging and the Misfolded Protein: Prion Disease as a Model for Disaggregating the Aggregate

Michael C. Naski, M.D., Ph.D.

University of Texas Health Science Center at San Antonio
Matrix Homeostasis and Gene Expression in Aging Cartilage

M. Carrington Reid, Ph.D., M.D.

Yale University School of Medicine
Determining the Impact of Back Pain on Physical and Social Disability Among Older Adults

Mary Whooley, M.D.

University of California School of Medicine, San Francisco
Mechanisms of Association Between Depression and Poor Health Outcomes in Older Patients

Kristine Yaffe, M.D.

University of California School of Medicine, San Francisco
Determinants of Cognitive Change and its Outcomes in African-American and White Elders

2000 Scholars

Brock Beamer, M.D.

Johns Hopkins University School of Medicine
Genetic Variation in PPAR- γ and RXR δ : Effects on Body Composition and Metabolism in Older Adults

Gunnar K. Gouras, M.D.

Weill Medical College of Cornell University
Neuronal A-beta Accumulation: Aging and Oxidative Stress

Mary Beth Hamel, M.D., M.P.H.

Harvard Medical School
Decision-making and Outcomes for Elderly Patients with Surgical Problems

Joshua M. Hare, M.D.

Johns Hopkins University School of Medicine
The Role of Nitric Oxide in Aging-related Cardiovascular Adaptions

Fuki M. Hisama, M.D.

Yale School of Medicine
The Molecular Basis of Aging in Werner Syndrome

Jason H. Karlawish, M.D.

University of Pennsylvania School of Medicine
Caregiver and Patient Preferences for the Treatment of Alzheimer's Disease

Jean S. Kutner, M.D., M.S.P.H.

University of Colorado Health Sciences Center
Symptom Management at the End of Life: Decreasing Distress and Improving Quality of Life

Brett Lauring, M.D., Ph.D.

Columbia University College of Physicians & Surgeons
An In Vitro Assay for Gamma Secretase Processing of the Amyloid Precursor Protein

Frank S. Lee, M.D., Ph.D.

University of Pennsylvania School of Medicine
Protein Kinases and Alzheimer's Disease

R. Sean Morrison, M.D.

Mount Sinai School of Medicine
Interventions to Improve Pain Outcomes

Scott A. Small, M.D.

Columbia University College of Physicians & Surgeons
Functional Imaging of the Hippocampal Formation in Age-related Memory Decline

1999 Scholars

Kenneth E. Covinsky, M.D., M.P.H.

University of California, San Francisco
Outcomes of Frail Nursing Home-eligible Elders Living in the Community

Matthew P. Frosch, M.D., Ph.D.

Harvard Medical School
Estrogen, Aging and Alzheimer's Disease Mechanisms and Model Systems

Daniel T. Laskowitz, M.D.

Duke University Medical Center
Apolipoprotein E, Microglial Activation, and Neurodegenerative Disease

Dale Leitman, M.D., Ph.D.

University of California, San Francisco
Role of Coactivators in Estrogen Repression of Gene Transcription

Richard Z. Lin, M.D.

University of Texas Health Science Center at San Antonio
The Role of Oxidative Stress in Aging Effects on Vascular Smooth Muscle Cell Growth and Signal Transduction

David R. Lynch, M.D., Ph.D.

University of Pennsylvania
Excitotoxicity in Neurodegenerative Disorders: New Understanding from NMDA Receptor Subtypes

Edward R. Marcantonio, M.D., S.M.

Harvard Medical School
Reducing Delirium in Post-acute Care: An Interventional Trial

Mitchell S. Nobler, M.D.

Columbia University College of Physicians & Surgeons
Serotonin and PET Neuroimaging in Normal Aging and Geriatric Depression.

Anne Louise Oaklander, M.D., Ph.D.

Harvard Medical School
Cellular Mechanisms of Chronic Neuropathic Pain

Thomas A. Rando, M.D., Ph.D.

Stanford University School of Medicine
Mechanisms of Age-related Muscle Atrophy: The Role of Cellular Antioxidant Defenses

1998 Scholars

Helene Benveniste, M.D., Ph.D.

Duke University Medical Center
In Vivo Magnetic Resonance Microscopy and Alzheimer's Disease: Defining and Staging the Progression of Alzheimer's Pathology in Transgenic Mice Overexpressing Beta Amyloid Protein

Laura L. Dugan, M.D.

Washington University School of Medicine
Mechanisms of Neuroprotection by C60 Derivatives: Relevance to Oxidative Stress During Aging

Terri R. Fried, M.D.

Yale University School of Medicine
A Longitudinal Study of Terminally Ill Patient's Preference for Care

Anne M. Kenny, M.D.

University of Connecticut Health Center
Mechanisms of Bone Loss in Older Men with Low Testosterone Levels

Alison A. Moore, M.D., M.P.H.

University of California, Los Angeles School of Medicine
Screening for Harmful and Hazardous Drinking in Older Persons

Thomas T. Perls, M.D., M.P.H.

Harvard Medical School
The Genetics of Longevity

Eric D. Peterson, M.D., M.P.H.

Duke University Medical Center
Toward a Rational Use of Revascularization in the Aged

Scott Turner, M.D., Ph.D.

University of Michigan Medical School
The Role of X11 & in Amyloid Precursor Protein

Jeremy D. Walston, M.D.

Johns Hopkins University School of Medicine
Molecular Etiologies of Age-related Changes in Body Composition

Raymond Yung, M.D.

University of Michigan Medical School
Lymphocyte Homing in Aging

1997 Scholars

Nir Barzilai, M.D.

Albert Einstein College of Medicine
The Effect of Age-dependent Increase in Visceral Fat on Insulin Action and Secretion

Michele Bellantoni, M.D.

Johns Hopkins University School of Medicine
Growth Hormone and Sex Steroid Effects on Bone in Older Women

James R. Burke, M.D., Ph.D.

Duke University Medical Center
Polyglutamine Proteins as a Model System for Studying Protein Aggregation and Cell Death in Aging and Neurodegenerative Disease

Mark D'Esposito, M.D.

University of Pennsylvania School of Medicine
Functional Neuroimaging Studies of Working Memory in Normal Human Aging

Thomas M. Gill, M.D.

Yale University School of Medicine
Identifying the Events that Precipitate Functional Dependence Among Community-living Elderly Persons

Bernard F. Godley, M.D., Ph.D.

University of Texas Medical Branch
The Role of Oxidative Damage and Repair in Age-related Macular Degeneration

Todd E. Golde, M.D., Ph.D.

Mayo Clinic Medical School, Jacksonville
Proteolytic Generation of the Amyloid Beta Peptide in Alzheimer's Disease

Helen Hoenig, M.D., M.P.H.

Duke University Medical Center
An Investigation of the Physical Costs and the Quality of Life Benefits of Wheelchairs for Older Persons

Elan D. Louis, M.D., M.S.

Columbia University College of Physicians and Surgeons
Functional Correlates of Essential Tremor

Charles A. Thornton, M.D.

University of Rochester School of Medicine and Dentistry
Pathophysiology of Myotonic Dystrophy, a Progeroid Syndrome

1996 Scholars

Christopher M. Callahan, M.D.

Indiana University School of Medicine
The Use of Percutaneous Endoscopic Gastrostomy Among Older Adults in a Community Setting

Robert W. Doms, M.D., Ph.D.

University of Pennsylvania School of Medicine
Presenilin 1, APP, and Alzheimer's Disease

Murali Doraiswamy, M.D.

Duke University Medical Center
Apolipoprotein E Type 4 Allele and Cerebral Metabolism in Relatives at Risk for Familial Alzheimer's Disease

Harlan M. Krumholz, M.D.

Yale University School of Medicine
Clinical Spectrum, Treatment and Outcome of Elderly Congestive Heart Failure Patients

Makau Lee, M.D., Ph.D.

University of Mississippi Medical Center
Studies on Aging, Dietary Restriction and Gastric Mucosal Defense

Richard F. Loeser, M.D.

Rush Medical College
Growth Factors and Aging in Cartilage

Karen M. Prestwood, M.D.

University of Connecticut Health Center
Bone Turnover and the Response to Estrogen in Older Caucasian, Hispanic and African-American Postmenopausal Women

May J. Reed, M.D.

University of Washington School of Medicine
Angio-genesis, the Extra-cellular Matrix, and Wound Repair in Aging

Robert Glenn Smith, M.D., Ph.D.

Baylor College of Medicine
Role of Voltage-gated Calcium Channel Auto Antibodies in Motoneuron Injury in ALS

1995 Scholars

Ashley I. Bush, M.D., D.P.M., Ph.D.

Harvard Medical School
Zinc Exposure as a Risk Factor for Alzheimer's Disease

Ted M. Dawson, M.D., Ph.D.

Johns Hopkins University School of Medicine
Gene Therapy for Neurologic Disorders

David M. Holtzman, M.D.

Washington University School of Medicine
Molecular and Cellular Factors that Play a Role in Maintaining Neuronal Form and Function in the Normal Aging CNS and How They May Be Altered in AD

Edward H. Koo, M.D.

University of California, San Diego School of Medicine
The Mechanism of Amyloid β -protein ($\alpha\beta$) Production from the Amyloid Precursor Protein (APP) in Neurons

Mark S. Lachs, M.D., M.P.H.

Weill Medicine College of Cornell University
The Morbidity and Mortality of Elder Abuse

Frank M. Longo, M.D., Ph.D.

University of California, San Francisco School of Medicine
New Strategies for Treating Neurodegenerative Disease

Richard A. Marottoli, M.D., M.P.H.

Yale University School of Medicine
Development of a Strategy for Identifying Which Older Drivers are at Risk for Crashes and Moving Violations

Lina M. Obeid, M.D.

Medical University of South Carolina
Role of Ceramide in Inducing the Senescent Phenotype through Activating a Growth Suppressor Pathway and by Inhibiting a Mitogenic Pathway

Peter Reaven, M.D.

University of California, San Diego School of Medicine
The Relationship of Aging and Antioxidant Defense Systems to Atherosclerosis

Alan R. Shuldiner, M.D.

University of Maryland School of Medicine
Genetics of Diabetes and Obesity in the Elderly

AFAR/Merck Junior Investigator Award in Geriatric Clinical Pharmacology

Two-year awards addressed the critical need of developing more physicians with a command of geriatric clinical pharmacology. Sponsored by the Merck Company Foundation. This program was active from 1988 to 2005.

2005 Investigators

Muralindhar Beeram, M.D.
University of Texas Health Science Center at San Antonio

Steven M. Handler, M.D.
University of Pittsburgh School of Medicine

2004 Investigators

Oumitana Kajkenova, M.D.
University of Arkansas for Medical Sciences

Josh F. Peterson, M.D., M.P.H.
Vanderbilt University

2003 Investigators

Joseph V. Agostini, M.D.
Yale University School of Medicine

Robert G. Riekse, M.D.
Seattle Institute for Biomedical & Clinical Research

2002 Investigators

Cynthia M. Carlsson, M.D.
Madison Veterans Affairs Geriatric Research, Education and Clinical Center (GRECC)

Margaret Pisani, M.D.
Yale University School of Medicine

2001 Investigators

Arti Hurria, M.D.
Memorial Sloan Kettering Cancer Center

Cathy C. Lee, M.D.
University of Michigan Health Systems

2000 Investigators

Helen K. Edelberg, M.D.
Mount Sinai School of Medicine

Wesley Ely, M.D., M.P.H., F.C.C.P.
Vanderbilt University School of Medicine

1999 Investigators

James B. Wendt, M.D.
University of Illinois at Chicago

1998 Investigators

Edward S. Connolly, Jr., M.D.
Columbia University College of Physicians & Surgeons

Richard Lin, M.D.
University of Texas Health Science Center at San Antonio

1997 Investigators

Hoang Duong, M.D.
Columbia University College of Physicians & Surgeons

Tina V. Hartert, M.D.
Vanderbilt University Medical Center

1996 Investigators

Rebecca J. Beyth, M.D.
Case Western Reserve University School of Medicine

Daniel T. Kaufer, M.D.
University of Pittsburgh School of Medicine

1995 Investigators

Barbara Clark, M.D.
Harvard Medical School

Rahmawati Sih, M.D.
Saint Louis University School of Medicine

1994 Investigators

Adalsteinn Gudmundsson, M.D.
University of Wisconsin

Fouzia Laghrissi-Thode, M.D.
University of Pittsburgh School of Medicine

1993 Investigators

Nabil Andrawis, M.D., Ph.D.
Brown University School of Medicine

Susan Kalish, M.D.
Harvard Medical School

1992 Investigators

Dean L. Kellogg, Jr., M.D., Ph.D.
University of Texas Health Science Center at San Antonio

Fred Kusumoto, M.D.
University of California, San Francisco

1991 Investigators

Kayla I. Brodtkin, M.D.
University of Washington School of Medicine

Mark Monane, M.D., M.S.
Harvard Medical School

1990 Investigators

Deborah N. Goldner-Robin, M.D.
Vanderbilt University School of Medicine

Eugenie L. Siegler, M.D.
University of Pennsylvania School of Medicine

1989 Investigators

Meghan B. Gerety, M.D.
University of Texas Health Science Center at San Antonio

Margaret Winker, M.D.
University of Chicago Medical Center

1988 Investigators

Gary A. Ford, M.D., M.R.C.P.
Stanford University Medical Center

Jerry H. Gurwitz, M.D.
Harvard Medical School

Stephen C. Montamat, M.D.
University of Washington School of Medicine

Bruce G. Pollock, M.D., Ph.D.
University of Pittsburgh School of Medicine

AFAR/Ellison Medical Foundation Senior Postdoctoral Fellows Research Program

Two-year fellowships to encourage and further the careers of postdoctoral fellows (both M.D.'s and Ph.D.'s) with at least 3 and not more than 5 years of postdoctoral training, in the fundamental mechanisms of aging.

2005 Fellows

Johannes H. Bauer, Ph.D.
Brown University
Mechanism(s) of p53-dependent Lifespan Extension

Malene Hansen, Ph.D.
University of California, San Francisco
Molecular Mechanisms of Lifespan Regulation by the Insulin/IGF-1 Pathways in C. elegans

Supriya Srinivasan, Ph.D.
University of California, San Francisco
The Role of Serotonergic Signaling in Energy Homeostasis During Aging

2004 Fellows

Shermali Gunawardena, Ph.D.
University of California, San Diego
Axonal Transport and Neurodegenerative Disease: Is Perturbation in Vesicular Transport an Early Neuronal Dysfunction Pathway?

Jeong Hyeon Park, Ph.D.
The Rockefeller University
The Roles of p53-interacting Chromatin Modifying Complexes in Human Cellular Aging

Sarah Sagi, Ph.D.
University of California, San Diego
NSAID Modulation of γ - and β -secretase

2003 Fellows

Haim Cohen, Ph.D.
Harvard Medical School
DNA Break Repair Controlled by SIRT1 via the Deacetylation of Ku70 and Ku80

Coleen T. Murphy, Ph.D.
University of California, San Francisco
Discovery and Analysis of C. elegans Lifespan Genes

Marc F. Poitras, Ph.D.
New York University School of Medicine
Molecular Mechanisms of Tankyrase1-induced Telomere Elongation

AFAR/Glenn Research Grant for Postdoctoral Fellows

One-year fellowships to encourage and further the careers of postdoctoral fellows (both M.D.'s and Ph.D.'s) with at least 2 and not more than 5 years of postdoctoral training, in the fundamental mechanisms of aging. Sponsored by the Glenn Foundation for Medical Research. This program was active from 2001 to 2004.

2004 Fellows

Paul D. Allen, Ph.D.

University of Rochester
Aging-related Neural Desynchronization in the Auditory Brainstem

Johannes H. Bauer, Ph.D.

University of Connecticut Health Center
The Role of p53 in Lifespan Extension

Robert Dekroon, Ph.D.

Duke University Medical Center
The Role of Intracellular Pathways Mediated by Lipoproteins in the Regulation of Apoptosis

Rugang Zhang, Ph.D.

Fox Chase Cancer Center
Molecular Basis of Cellular Senescence

2003 Fellows

Arjumand Ghazi, Ph.D.

University of California, San Francisco
Role of the Somatic Gonad in the Regulation of Caenorhabditis elegans Aging

David W. Killilea, Ph.D.

Children's Hospital Oakland Research Institute
Cellular Aging Alters Intracellular Iron Homeostasis

Gawain McColl, Ph.D.

Buck Institute for Age Research
The Role of KU70 in Stress Resistance and Aging

Andrej Podlutzky, Ph.D.

University of Texas Health Science Center at San Antonio
Stress Tolerance and Bat Aging

2002 Fellows

Adam H. Gazzaley, M.D., Ph.D.

University of California, Berkeley
Neural Mechanisms of Memory Function in Normal Aging

Dejan Milatovic, Ph.D.

Vanderbilt University
Cerebral Oxidative Damage in the Models of Advanced Age, Inflammation and Excitotoxicity

Anne Simon, Ph.D.

California Institute of Technology
Study of Long-lived Mutants of the Ecdysone Receptor

Meng-Ping Tu, Ph.D.

Brown University
Yeast-restriction in Juvenile State Extends Adult Lifespan in Drosophila melanogaster

2001 Fellows

Debdutta Bandyopadhyay, Ph.D.

Baylor College of Medicine
Role of Histone Deacetylation in Melanocytes Senescence

Kathy Barsz, Ph.D.

University of Rochester Medical Center
The Effect of Aging on Physiological Correlates of Masked Intensity Judgments

Nilufer Ertekin-Taner, M.D.

Mayo Clinic, Jacksonville
Identification of the Novel Late-onset Alzheimer's Disease Gene on Chromosome 10 Using Plasma Amyloid Beta Levels as a Surrogate Genetic Marker

Faith Gunning-Dixon, Ph.D.

Hospital of the University of Pennsylvania
The Neural Basis of Age-related Declines in Episodic Memory

Kimmo J. Hatanpaa, M.D., Ph.D.

Johns Hopkins University
Catabolism of Alzheimer Amyloid Beta-protein

Shunai Jiang, M.D., Ph.D.

Emory University
Fas Ligand and Fas in Aging

Pankaj Kapahi, Ph.D.

California Institute of Technology
Isolation and Characterization of Genes That Extend Lifespan and Prevent Neurodegeneration Using Drosophila melanogaster as a Model System

Plamen D. Penev, M.D., Ph.D.

University of Chicago
Poor Sleep Quality and Testosterone Decline in Older Men

Claus U. Pietrzik, Ph.D.

University of California, San Diego
Role of the LRP in Cytoplasmic Domain in APP Processing

Leanne Rae Stewart, Ph.D.

Washington University School of Medicine
The Involvement of Mutant PrP Accumulation and Apoptosis in Neurodegeneration in Tg(PG14) Mice

AFAR/Merck Research Scholarships in Geriatric Pharmacology for Medical and Pharmacy Students

Two- to three-month awards provided M.D. and Ph.D. students the opportunity to undertake a research project in geriatric pharmacology. Sponsored by the Merck Company Foundation. This program was active from 1998 to 2004.

2004 Scholars

Mary Jo Hessert

University of New England
Assessing Medication Compliance for Elderly Patients in a New York Rural Family Practice

Patricia A. McHazzlett

Texas Tech University Health Sciences Center
Divalent Ion Channels as Drug Targets in Alzheimer's Disease

Sarah E. Smith

University of California, Irvine
Medication Use in Dementia Patients in Adult Day Health Centers

2003 Scholars

Kelly Gauthier

Virginia Commonwealth University
Cognitive, Functional and Behavioral Outcomes of Reducing Anticholinergic Drug Use in Alzheimer's Disease Patients Taking Cholinesterase Inhibitors

Courtney Hoelting

Texas Tech University Health Sciences Center
Characterization of the Agnostic and Antagonistic Effects of Selective Estrogen Receptor Modulators (SERMs) and Estrogen-related Compounds in Septal Cholinergic Neurons

Olga Kaufman

University of Southern California
Depression and Pain Management of Disabled Patients Using Effective Age Model

Paul McConnell

West Virginia University School of Medicine
Measurement of Antioxidative Protection in Mammalian Cells as a Means to Possibly Prevent Neurodegenerative Aging Disorders

Angela A. McMichael

University of Maryland, Baltimore
Improving Diabetes Medication Management in Older Adults

2002 Scholars

Mark Gamber

University of North Texas Health Science Center
Hormone Replacement Therapy: Investigating Language Barriers

David C. Johnson

University of Florida
Geriatric Chronic Pain Management: The Effects of Including a Pain Self-assessment in the Patient's Medical Chart

Daniel G. Kloda

University of New England
Role of Dynorphin Peptides in Age-associated Cognitive Impairment

Amanda Preston

Ohio Northern University
The Role of Excessive MAO-B Activity in the Learning Deficits Induced by Aging and Ecstasy

Heather Sturgill

Virginia Commonwealth University
Tissue Factor Polymorphism in Postmenopausal Women

Kathleen Tschantz Unroe

Ohio State University
Prescribing Medications to Older Drivers: Are Physician Resources Adequate?

2001 Scholars

Angelo A. Baccala

Johns Hopkins University School of Medicine
In Vitro RU-486 Gene Switch Regulation of iNOS for the Treatment of Erectile Dysfunction in Men Taking Nitrate Containing Drugs and Those Suffering from the Side Effects of Viagra

Jennifer W. Childress

University of Maryland, Baltimore
Evaluation of Oral Inhaler Technique Pre- and Post-interventions in Elderly Individuals

Jay Chung

Harvard Medical School
Characterization of the IDE-mediated Degradation of $\alpha\beta$ in Plasma Membranes and in Intracellular Vesicular Compartments of Cells

Yana Dadiomova

Mount Sinai School of Medicine
Medication Management and Health Literacy in Community-dwelling Older Adults

Jennifer L. Johnson

University of Arkansas for Medical Sciences
Baseline Medication Use in Dementia Patients with Disruptive Behaviors

Reza Kafi

University of Michigan Medical Center
Topical Vitamin A (All-trans Retinol) in the Treatment of Aged Skin

Blake Keller

Commonwealth University/Medical College of Virginia
Age-related Differences in the Sensitivity to Ethanol in Humans

Christopher Martin

Texas Tech University Health Sciences Center
Effects of Phytoestrogens on the Survival of Basal Forebrain Cholinergic Neurons In Vitro

Julia K. Nguyen

University of California, San Francisco
Is Polypharmacy a Risk Factor for Adverse Drug Reactions in Geriatric Nursing Home Residents?

Mai T. Nguyen

Western University College of Pharmacy
Examining a Role for Diazepam in Protecting Nerve Cells from Death that is Exposed to Alzheimer Plaque Fragments

Aimee M. Wright

University of Florida
The Relationship of Cognitive-impairing Medications and Cognitive Ability in Elderly Psychiatric Inpatients

2000 Scholars

Jeffrey R. Bishop

University of Iowa
Neuronal Susceptibility to Environmental Stressors in Parkinson's Disease: The Role of $\alpha\beta$ -Synuclein.

Dena Dubal

University of Kentucky
Estrogen-mediated Neuroprotection Against Stroke Injury in Aging Female Rats: Potential Mechanisms

Yvonne C. Huckleberry

Washington State University
Are Explicit Criteria for the Prescribing of Medications in the Elderly Utilized? An Assessment of Office-based Physician-patient Encounters in the United States 1990-1997

Szilard Kiss

Columbia University College of Physicians & Surgeons
sRAGE Inhibition of the Post-ischemic Pro-inflammatory Axis: A Novel Treatment for Stroke

Sarah Middleton

Brown University
Nitrate Use in Very Frail Elderly with Coronary Heart Disease

Melissa Wellons

Duke University
HIV Infection: Treatments and Outcomes in Older and Younger Patients

1999 Scholars

Patricia M. Engle

Purdue University
Predictors of Serum Anticonvulsant Concentrations in Older Adults and Related Treatment Outcomes

Wei Han Fang

University of Iowa
Phage Display Technique in Drug Screening for Alzheimer's

David Ganz

Harvard Medical School
Anticoagulant Use and Monitoring in Elderly Patients with Atrial Fibrillation

Kathryn L. Harris

Mercer University
A Retrospective Study of Adverse Drug Reactions Following the Administration of the Influenza, Pneumonia and/or Tetanus-diphtheria Vaccines to Geriatric Nursing Facility Residents

Jiwon W. Kim

University of Southern California
Drug Treatment of Managed Care Patients and Fee-for-Service Patients of Skilled Nursing Facilities - Comparison of Cost, Length of Treatment, Efficacy, and Outcomes Measurements.

Bismruta Misra

Massachusetts General Hospital
Clinical and Nonclinical Factors of Antihypertensive Polypharmacy

Andrew G. Solomon

Virginia Commonwealth University
The Effect of Older Age on Luteinizing Hormone (LH) Elimination

W. Wallace Webster

University of Kansas Medical Center
Analysis of Loosely-bound Iron in Alzheimer's Disease Brain Tissue and Correlation with Histopathological Changes

1998 Scholars

Lanning R. Baker

Idaho State University
Morphine Metabolites and Gender Differences in Pain Responses in the Elderly

Irina D. Burd

University of Medicine and Dentistry of New Jersey
The Importance of Neuron-Astrocyte Interactions in Adult Basal Forebrain

Jersey Chen

Yale University School of Medicine
 β -blocker Therapy for the Treatment of Acute Myocardial Infarction in Elderly Medicare Beneficiaries with Diabetes

James A. Edwards, Ph.D.

Virginia Commonwealth University
Analysis of Plasma Levels of Scopolamine in Healthy Elderly Volunteers

Kevin L. Ferguson

Stanford University
The Effects of Metformin on the Development of Visceral Obesity and Insulin Resistance in Fat-fed Rats

Rahul Garg

Duke University
RhoA and its Role in the Mechanism of Action of Common Glaucoma Drugs

Cynthia O. Howell

University of Florida College of Pharmacy
The Effect of Estrogen Deprivation on Heat Shock Protein-70 Expression in Rat Skeletal Muscle

Louis J. Kim

Columbia University
Active Site-blocked Factor IXa as a Novel Treatment for Stroke in a Murine Model of Focal Cerebral Ischemia

David D. Limbrick, M.S.

Virginia Commonwealth University
Characterization of Intracellular Calcium Kinetics Following Glutamate Exposure in an In vitro Model of Stroke and Aging

1997 Scholars

Roni Devlin

University of Colorado Health Sciences Center
Computerized Identification of Potential Adverse Drug Events in the Elderly and the Effect on Physician Response and Drug Program Utilization

Marc Levisky

Northwestern University
SSRI-induced Hyponatremia in the Elderly: Is it Real Clinical Concern?

Carol Mattes

University of Pittsburgh Medical Center
Human Inducible Nitric Oxide Synthase as Gene Therapy for Erectile Dysfunction

Maritess Mauricio

Stanford University School of Medicine
Apolipoprotein E (ApoE) Status and the Effects of Estrogen Replacement Therapy on Depression and Cognitive Function in Older Women

Jill Scott

Tufts University School of Medicine
Reduced Cytochrome P450-3A Activity in Old Age: An Experimental Model

Selina Shah

Vanderbilt University School of Medicine
The Effects of Aging on P-glycoprotein Activity in the Central Nervous System.

AFAR/Glenn Scholarships for Research in the Biology of Aging

Three-month awards provided M.D. and Ph.D. students the opportunity to conduct a research project in an area of biomedical research in aging, under the auspices of a mentor. Sponsored by the Glenn Foundation for Medical Research. This program was active from 1995 to 2004.

2004 Scholars

Ezana M. Azene

Johns Hopkins University
Gene Therapy for Peripheral Neuropathic Pain

Melynda A. Barnes

Mount Sinai School of Medicine
Immunohistochemical Analysis of Spinal Cords from Disulfiram-Treated G86R Superoxide Dismutase-1 Transgenic Mice

Ala Berdichevsky

Massachusetts Institute of Technology
Identification of Molecular Targets of sir-2.1 Gene, which Promotes Extension of Lifespan of the Nematode Caenorhabditis elegans

Eric Hau-Yun Chang

New York University
Receptor Dysfunction in Double Knock-in APP+PS1 Mice

Robi Goswami

Duke University
Regulation of the Platelet-derived Growth Factor Receptor-B by G Protein-coupled Receptor Kinase-2

Jennifer A. Greenhall

University of California, San Diego
The Impact of fgf1 and fgf2 on the Preservation of Cortical Neurons in the Aging Mouse

Shilpa Iyer

University of Georgia
Kltn-M1: A Novel Yeast Model System to Study Telomere Capping Defects and Recombinational Telomere Elongation

William W. Ja

California Institute of Technology
Characterization of Methuselah, a Drosophila G Protein-coupled Receptor Associated with Longevity

Youngmok Charles Jang

University of Florida, Gainesville
Long-term Caloric Restriction (CR) as a Strategy to Prevent Sarcoplasmic Reticulum (SR) Stress Induced Cardiomyocytes Apoptosis In Vivo

Jennifer Q. Kwong

Weill Medical College of Cornell University
Modulation of Mitochondrial Homeostasis by Bcl-2 in Cells with Mitochondrial DNA Mutations

Janelle Lauer-Fields

Florida Atlantic University
Engineering and Expression of ADMTS-4 and ADMTS-5, Proteolytic Enzymes Involved in Osteoarthritis Progression

Maria Lehtinen

Harvard University
Characterization of the Role of MST1 in Oxidative Stress and Aging in Caenorhabditis elegans

Jacqueline Maffucci

University of Texas
Hypothalamic Mechanisms for Reproductive Senescence in Aging Female Rats: Roles of NMDA Receptors and GnRH Neurons

Patrick McLaughlin

University of Washington
Proteomic Analysis of Proteins Related to Inflammation in Parkinson's Disease

Kathryn A. Moynihan

Washington University
Deacetylation of the Forkhead Transcription Factor FOXO1 by Mammalian Sir2a Negatively Regulates Insulin Gene Expression in Pancreatic β Cells

Xuan V. Nguyen

University of Kentucky
Age-dependent Alterations in Dopamine and the Nigrostriatal System in Prodynorphin Knockout Mice

Mohammed Zeeshan Ozair

Aga Khan University
Analysis of Neural Stem Cell Migration Towards Brain Tumors by In Vivo Phage Display

Annalise Paaby

University of Pennsylvania
Selection and Gene Regulation of Senescence in Natural Populations of Drosophila

Carlos J. Pantoja

University of California, San Francisco
The Involvement of DAF-16 and HSF-1 in the Regulation of Small Heat Shock Protein Genes

Julie K. Plowden

Emory University
Effects of Aging on the Kinetics and Strength of T-cell Antigen Presenting Cell Interactions

Adolfo Sanchez-Blanco

University of Connecticut Health Center
UCP5 Deficiency Mimics Caloric Restriction in Drosophila melanogaster

Kim Sciarretta

University of Chicago
Modeling an Intermediate of Beta-amyloid Fibril Formation

Kun-Chih Kelvin Tsai

Harvard University
Heterotypic Interactions Between Stress-induced Prematurely Senescent Stroma and Neighboring Epithelial Cells in Aging and Cancer

Lisa J. Whitson

University of Texas Health Science Center at San Antonio
Monomerization and Amyloid Formation of FALS-Associated Cu-Zn Superoxide Dismutase Mutants

Brice J. Williams

Medical University of South Carolina
Altered Neurotrophin Release in Age-related Dementia

2003 Scholars

Scott B. Berger

University of Michigan
The Use of Glycosidases as a Means of Correcting Age-dependent Deficiencies of T-cell Function

Jennifer Capla

New York University
Investigating the Role of Adult Vascular Stem Cells in the Pathogenesis of Age-related Disease

Marci L. Chew

University of Pittsburgh
Serum Anticholinergic Activity at Specific Muscarinic Receptor Subtypes

Daniel J. Durand

Johns Hopkins University
Myocardial Regeneration by Bone-marrow Derived Stem Cells in Old versus Young Wistar Rats

Andrew A. Grimm

Washington University
The Functional Relationship Between an NAD Biosynthesis Enzyme and the NAD-Dependent Deacetylase, SIR2, in Mammals

Mary A. Hancock

University of Utah
Comparison of the Levels of Oxidative Damage Among European Mitochondrial Haplogroups Using Phylogenetic Analysis

Jaime M. Hatcher

Emory University
Effects of Chronic Dieldrin Exposure to Organotypic Slice Cultures of Rat Striatum and Nigra

Kerry L. Hildreth

Duke University
Molecular Mechanisms for Regulation of the Platelet-Derived Growth Factor Receptor Beta by Serine Phosphorylation

Renee Ho

University of Southern Alabama
Enhancing Mitochondrial DNA Repair of Oxidative Damage as a Strategy to Delay the Effect of Aging in Neurons

Steven Hobbs

University of Colorado
The Role of Estrogen in Cortisol Induced Beta-amyloid Production and Toxicity

Troy A. Hornberger

University of Illinois, Chicago
Regulation of Protein Synthesis Through Stretch Induced Signaling Events in Aging Skeletal Muscle

Matthew R. Hosler

University of Medicine and Dentistry of New Jersey
The Role of Oxidation in the TGF- β Cataract Model

James G. Jackson

University of Texas Health Science Center at San Antonio
Role of the Novel Transcription Factor MRG15 in Cell Proliferation and Senescence Escape

Hanyu (Maggie) Liang

University of Texas Health Science Center at San Antonio
Characterization of Transgenic Mice Overexpressing Thioredoxin2 (Trx2)

Janelle Mallett

University of Connecticut
Effect of Parathyroid Hormone on Osteoblast Proliferation and Apoptosis in Fgf2 Knockout Mice

Julien Muffat

California Institute of Technology
Characterization of the Drosophila Apolipoprotein D Homolog as a Novel Gene Influencing Lifespan and Stress Resistance

Tung Hoang Ngo, Ph.D.

Western University College of Medicine
Effect of Dietary Fat on Androgen-independent Prostate Tumor Growth in Scid Mice

Anirban Paul

Howard University
Novel Regulators of Manganese Superoxide Dismutase Gene Transcription in Drosophila

Richard J. Perrin

University of Illinois at Urbana-Champaign
Analysis of Polyunsaturated Fatty Acid-induced Modification of Alpha-synuclein, a Protein Involved in Neurodegenerative Disease

Deepa Pickle

University of Maryland
Premature Aging: A 'Defective' Helicase-topoisomerase Interaction in DNA Metabolism

Amy Pooler

Massachusetts Institute of Technology
Investigating Age-Related Memory Impairment: The Role of Cholesterol in Synaptic Protein Expression and Membrane Formation in the Hippocampus

Davis C. Ryman

Case Western Reserve University
A Genome Scan for Quantitative Trait Loci Controlling Beta-amyloid Production and Deposition in a Transgenic Mouse Model of Alzheimer's Disease

Megha Satyanarayana

University of Texas Southwest Medical Center
A Rapid Fluorescence-based Screen for Long Lived C. elegans Mutants

Ganesh Shankar

Harvard University
Effects of Apolipoprotein E and a1-antichymotrypsin on In Vivo Production and Stabilization of Natural Amyloid Beta-protein Oligomers

Jason D. Shepherd

Johns Hopkins University
The Involvement of the Immediate Early Gene ARC in Endocytosis of Presenilin1 and APP Processing: Implications for Alzheimer's Disease

Tiffany E. Shubert

University of North Carolina, Chapel Hill
Effects of Exercise on Angiogenesis in the Hippocampus of Mice

Brian Silvia

University of Connecticut
Targeted Expression of Putative Drosophila Uncoupling Protein and its Effect on Longevity

Wook Song

Texas A&M University
Effect of Exercise Training on Age-induced Upregulation of the iNOS Signaling Pathway in Skeletal Muscle

Liou Sun

Southern Illinois University
The Effect of Dwarfism and Caloric Restriction on Synaptophysin Expression in the Mouse Hippocampus

Susan E. Swanberg, J.D.

University of California, Davis
Avian Cells In Vitro: A Model System for the Study of Telomere Length Regulation and Replicative Senescence

2002 Scholars

Trinity J. Bivalacqua

Tulane University School of Medicine
Role of Superoxide in the Pathophysiology of Age-related Erectile Dysfunction: Influence of In Vivo Gene Transfer of Superoxide Dismutase

Jinsook Chang

University of Texas Health Science Center at San Antonio
Profiling of Mitochondrial Proteins by 2D Gel Electrophoresis in Wild Type and Heterozygous MnSOD Mice with Age

Abbie C. Conroy

Wake Forest University
Aging and the Regulation of the Interleukin-1-Receptor-associated Kinase in Murine Splenocytes

Danielle S. Day

University of Colorado Health Science Center
Effects of Age-related Decline in Sex Hormones on Resting Energy Expenditure

Cheryl (Jansen) Ethen

University of Minnesota
Proteome Analysis of Retinal Proteins

Raina T. Gay

Tufts University
The Effect of Vitamin E on Secondary Bacterial Infection Following Influenza Infection in Old Mice

William Y. Go

University of California, San Diego
Elucidating the Function of NFAT5: Possible Cell Cycle Modulator in Response to Oxidative Stress, UV/Ionizing Radiation and Hypertonicity

Mark F. Haussmann

Iowa State University
How do Long-lived Organisms Delay Senescence - Development of Appropriate Models and Techniques

Jason Hinman

Boston University School of Medicine
The Characterization of Nodal Abnormalities in the Aging Brain

Cheng Huang

Washington University School of Medicine
Identification of Genes Involved in Caenorhabditis elegans Aging

Kara Johnson

Loyola University Medical Center
Effect of Age on β -lymphopoiesis and the Maintenance of the Mature β Cell Compartment

Nathan K. LeBrasseur

Boston University
Neuregulin/ErbB Signaling in Skeletal Muscle: Aging & Atrophy

Sandy Li

University of Michigan
Expression Analysis of Type II IP3 Receptor in Aging Retina

Lina Li

University of Alabama at Birmingham
Age-related Thymic Involution in IL-12B Knockout Mice

Paul R. Lockman

Texas Tech University Health Science Center
Targeted Brain Delivery of Novel Nanoparticles via the Blood-brain Barrier Choline Transporter

Carrie Lyons

Queen's University
The Impact of Mitochondrial Ultrastructure on Cellular Physiology

Deanna Marchionini

Rush-Presbyterian-St. Luke's Medical Center
Melatonin Treatment for Optimal Graft Survival in an Aged Rat Model of Parkinson's Disease

C. David Mintz

Mount Sinai School of Medicine
Investigating the Role of Presenilin-1 at the Synapse

Jacqueline E. Payton

University of Illinois at Urbana-Champaign
Functional Analysis of the Neurodegenerative Disease-related Protein, Alpha-Synuclein

Mark Rapoport

Northwestern University Medical School
Dynamic State of Mind: Does a More Plastic Cytoskeleton Prevent $\alpha\beta$ -Induced Neurodegeneration in Hippocampal Neurons?

Catherine Rehder

Virginia Commonwealth University
The Role of Chromosome Specific Telomere Length in Age-related Somatic Cell Aneuploidy

Rose M. Reynolds

University of Illinois at Urbana-Champaign
The Contribution of Population Heterogeneity to Mortality Plateaus

Ritu Saini

New York University School of Medicine
Gene Regulation by Interleukin-8 in Cultured Keratinocytes

Scott Salsman

Oklahoma Medical Research Foundation
Effect of Active Site Oxidation on the PTEN Tumor Suppressor

Sarah Speranza

University of New England College of Medicine
Development of Neurosteroids as Cognitive Enhancers

Raymond W. Thompson

University of South Carolina
Effect of Aging On Inflammation During Skeletal Muscle Regeneration Following Functional Overload Induced Injury

Maria L. Urso

University of Massachusetts
Muscle Function, Disuse and Antioxidants in Older Adults

Laura Volpicelli-Daley

Emory University
The Effects of Chronic Cholinergic Stimulation on Muscarinic Acetylcholine Receptor Intracellular Trafficking and Expression

Min Zhu

University of Rochester
Transcription Modulation by the C-terminal Fragment of Amyloid Precursor Protein in Neurodegeneration

Brian M. Zid

California Institute of Technology
Investigating the Role of Fatty Acid Amide Hydrolase in Aging Using Drosophila melanogaster

2001 Scholars

Yama Akbari

University of California, Irvine
Primary Mechanism Underlying Presenilin Mutations: Calcium Dyshomeostasis or Beta-Amyloid Formation?

Daniela-Annenelie Bota

University of Southern California
Regulation of Lon Protease Activity with Aging and Level of Oxidative Stress

David Badre

Massachusetts Institute of Technology
Neurobiology of Cognitive Aging: Human Prefrontal Cortex and Memory in Normal Aging

Kevin J. Bitterman

Harvard Medical School
A Genetic Screen for Factors That Extend Lifespan Through Caloric Restriction Pathway

Todd A. Cannon

University of Washington
Involvement of WRN Protein in Atherosclerogenesis

Lynn Chien

Duke University
Tumor Necrosis Factor Receptor Subtype-specific Signaling in Vascular Smooth Muscle Cells

Krishnan M. Dhandapani

Medical College of Georgia
Mechanisms of Neuroprotection by Estrogen and SERMs

Ibtissam Echchgadda

University of Texas Health Science Center at San Antonio
Aging and DHEA-sulfotransferase in Cholesterol and Bile Acid Homeostasis

Mark R. Gavin

Washington University
Understanding the Mechanism of S Phase Arrest by the Retinoblastoma Tumor Suppressor Protein

Kristen J. Homes

Washington University
Elucidation of Components of the B3 Integrin that are Essential for Bone Resorption: A Search for Anti-osteoporosis Therapeutic Targets

Andrew C. Hsieh

Albert Einstein College of Medicine
The Role of a Novel Forkhead Target Gene in Regulating Cellular Senescence

Carianne Judge

University of Maryland
Investigating the Role RNase-L Plays in Senescence

Eleanor A. Knopp

Yale University
The Effect of Aging on the Skeletal Response to Intermittent Treatment with PTH

Amy C. Lee

Massachusetts Institute of Technology
Age-associated Changes in the Inflammatory and Proliferative Response to Vascular Injury

Patrick McHugh

University of Louisville
Neutrophil (PMN) Senescence: Can PMNs Become Too Old to Kill?

Timothy E. Meyer

Washington University
The Effects of 3-month DHEA Supplementation in Older Adults on Vascular Reactivity

Gail C. O'Kane

Massachusetts Institute of Technology
Exploring the Relation Between Set Shifting and Memory Retrieval

Thomas J. Scharshmidt

Northeastern Ohio University College of Medicine
Analysis of Type IIA and IIB Splice Variants of Procollagen in Osteoarthritis Utilizing Laser Capture Microdissection

Rodney E. Shackelford

Des Moines University of Osteopathic Medicine
Ataxia-telangiectasia, Gene Therapy, and the Cellular Aging Process

Alex Shpilman

Finch University of the Health Sciences/Chicago Medical School
Impact of the SAPK-1 Pathway on the Age-related Impairment of Adipogenesis

Faisal Siddiqui

State University of New York, Syracuse
Numerical Densities of Myonuclei and Satellite Cells in Muscle Fiber in the Aging Human Lateral Cricoarytenoid Muscle: An Immunohistochemical and Stereological Study using Confocal Laser Scanning Microscopy

Bethany Slater

Mount Sinai School of Medicine
Alpha MSH and Aging

Christine C. Spencer

University of Georgia
The Role of Gene-gene Interactions in Aging

Michael Sugarman

University of California, Irvine
Can Inclusion Body Myositis Be Treated with a Beta Amyloid Vaccine?

Junko Takeshita

Washington University
Oxidative Damage of DNA: Mechanisms for Carcinogenesis

Doris M. Tham

University of California, Davis
Actions of Peroxisome Proliferator-activated Receptor on Diabetic Vasculopathy

Isaiah Turnbull

Washington University
Effect of Aging on the Heat Shock Response and Subsequent Sepsis Survival

Christian Von Hehn

Christian-Albrechts-Universitaet, Kiel
The Role of Kv3.1 and its Regulation in Age-related Hearing Loss

Jill M. Weimer

University of Rochester
A Transgenic Animal Model for the Disruption of Lysosome/Endosome Function: A Commonality in Neurodegenerative Diseases

2000 Scholars

Eric D. Agdeppa

University of California, Los Angeles
Biological Probes for Beta-amyloid Plaques in Alzheimer's Disease: In Vitro Analysis of Beta-amyloid-binding Characteristics of DDNP Analogs

Rania Al-Shami

University of Delaware
Relative Levels of OPN-1 and OPN-2 Change During Aging

Xinlian Chen

University of Texas Health Science Center at San Antonio
The Response of Mice that Overexpress Catalase and Cu/Zn-SOD to Oxidative Stress

Jay Chyung

Harvard University
Characterizing the Effects of a Mucosal Vaccine for Alzheimer's Disease

Richard D'Alonzo

Saint Louis University
Physical Interaction Between Osteoblastic Transcription Factors

Rajesh Dash

University of Cincinnati
Phospholamban Phosphorylation as a Compensatory Mechanism of the Endangered Myocardium

Allison W. Dobson

University of South Alabama
Enhancing mtDNA Repair in Down's and Cockayne's Syndromes

Delia Garigan

University of California, San Francisco
Mapping and Characterization of Novel Lifespan Mutations in C. elegans

David Gordon

University of Chicago
Investigation of the Structure of Beta Amyloid Fibrils

Elise Grenier

Northwestern University
Regional Differences of Astrocytes in the Development or Acceleration of Alzheimer's Disease

Andreana P. Haley

University of Virginia
A Magnetic Resonance Spectroscopic Examination of Hippocampal Volume and N-acetyl-aspartate Levels in Healthy Aging

Jeffrey P. Henderson

Washington University
Halogenation of DNA by the Myeloperoxidase System of Activated Phagocytes: Implications for Carcinogenesis at Sites of Inflammation

Vicki Kule

University of Michigan
Characteristics of Disulfide Intermediate in the Aging of Phosphoglycerate Kinase

Justine Levin

Rockefeller University
Estrogen Effect in a Mouse Model of Alzheimer Disease

Stephen S. Lin

Washington University
Snf1p Kinase and Aging in S. cerevisiae

J. Andy Mengshol

Dartmouth University Medical School
IL-1 Regulation of Collagenase-3 in Osteoarthritis

Renee Miller

University of Rochester
Gene Expression Profiling in Parkinson's Disease

Kevin Monahan

University of Colorado
Do Reductions in Carotid Arterial Compliance Modulate the Age-related Decline in Arterial Baroreflex Function in Sedentary and Regularly Exercising Humans?

Bhagavathi Ramamurthy

Penn State University
The Effect of Glycation of Myosin on the In Vitro Motility of Actin with Respect to Aging

Jody L. Short

Western University of Health Sciences
Effects of Human Apolipoprotein E Isoforms on Olfactory Nerve Plasticity in Mice

Jennifer E. Stine

University of Texas Health Science Center at San Antonio
Structural Study of FALS-associated Cu-Zn Superoxide Dismutase Mutants

David A. Sun

Medical College of Virginia/Virginia Commonwealth University
Molecular Basis for Stroke Induced Epilepsy

Leslie P. Tao

University of California, Los Angeles
A Progesterone-dependent Mechanism to Delay Reproductive Aging

Robert T. Turner III

Oklahoma University
Substrate Specificity of β -Secretase: Towards Design of Inhibitor Drugs

Baiping Wang

University of Washington
In Vivo Analysis of the Role of FE65 in Alzheimer's Disease

Fei-Shiuan Clarissa Yang

McGill University
Role of Telomere-associated Senescence in Wound Healing

1999 Scholars

Erin K. Baehr

Northwestern University
Low-intensity Exercise at Night to Phase-delay Circadian Rhythms of Older Adults

Jennifer Berkeley

Emory University
Muscarinic Regulation of Amyloid Precursor Protein Metabolism

Erik D. Bernstein

Allegheny University of the Health Sciences
RAGE, Aging and Peripheral Nerve Regeneration

Wende R. Buras

Boston University School of Medicine
The Role of Threonine Phosphorylation in EGFR Dysfunction with Aging

Manu Chakravarty

University of Texas Medical School at Houston
Proliferative Capacity of Skeletal Muscle Satellite Cells with Aging

Judy Y. Chen

Meharry Medical College
A Clinical and Molecular Genetic Analysis of Early-onset Parkinson's Disease in an Asian American Family

Frank A. Dinunno

University of Colorado at Boulder
Femoral Artery Intima-media Thickness: Effects of Aging and Habitual Physical Activity

Andrew Doan

Johns Hopkins University
Identification and Characterization of Interacting Proteins That Modify the Cell Biology and Neurodegenerative Properties of Presenilin 1, an Alzheimer's Disease-linked Protein

Shawn P. Gallagher

University of Delaware
Detecting Early Glaucomatous Visual Field Loss with Neural Networks

Joseph P. Gaut

Washington University
A Myeloperoxidase-Dependent Pathway of Oxidative Damage in 1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine-induced Parkinson's Disease

Bradley S. Henson

University of Michigan
Impact of Parotid-sparing Radiation on Xerostomia and Quality of Life in Head and Neck Cancer Patients

Kailiang Jia

University of Missouri at Columbia
Genetic Study of daf-9, A Modulator of Life Span in C. elegans

Elizabeth Kensingler

Massachusetts Institute of Technology
Uncovering the Relation Between Short-term Memory and Long-term Memory

Elaine Khatod

Wake Forest University
The Effects of Age and Exogenous Estrogen on the Synaptic Density of Layer II Prefrontal Cortex: Does Estrogen Replacement Increase Synaptic Density in this Cognition-associated Region of the Old OVX Female Brown Norway X Fischer 344 Rat?

David W. Killilea

University of South Alabama
Physiological Oxidant Generators Alter Genomic Integrity

Daniel E. Kolker

Northwestern University
Circadian Gene Expression in Young and Old Hamsters

Joseph E. Labrie III

University of Massachusetts
Is U(D)J Recombinase Activity Decreased in Aged Mice?

James K. Leung

Baylor College of Medicine
Characterizing the MORF4-Related Gene on Chromosome X (MRGX)

Janet A. Martin

University of California, Irvine
Astrocyte Degeneration and Vascular Changes in Frontotemporal Dementia

Ryan A. McTaggart

Columbia University
Amyloid- β and ABAD: A Convergence of Alzheimer's Disease and Stroke

James F. Mele

The University of Texas Health Science Center at San Antonio
The Development of a Transgenic Model to Study the Role of Manganese Superoxide Dismutase in Oxidative Stress

David Merrill

University of California San Diego
Neurodegeneration of the Hippocampal Formation with Aging and Treatment with Neurotrophic Factors

Daniel W. Mudrick

Johns Hopkins University
Effects of Age on NOS2 Induction and Response to β -Adrenergic Stimulation in LPS and γ -INF Exposed Rat Hearts

Anavelys Ortiz-Suarez

University of Michigan
Characterization of Expanded T-cell Clones in Old Mice

James P. Passinault

Loyola University Medical Center
Angiogenesis and Aging

Nicholas K. Priest

University of Georgia
The Maternal Effects of Stress Resistance and Senescence

Eric S. Rawson

University of Massachusetts
Creatine Loading in Elderly Men

Haifeng Song

University of Maryland, Baltimore
Altered Responses of Aged β Cells to CD40 Stimulation

Veena Viswanath

University of Southern California
Role of Apoptosis in Age-related Neurodegenerative Disorders: Caspases and Their Inhibition as a Potential Therapeutic Intervention

Theodor A. Zainal

University of Wisconsin
Histologic Quantitation of Age-dependent Oxidative Damage in Rhesus Monkey Skeletal Muscle: Effects of Caloric Restriction

1998 Scholars

Stuart K. Amateau

University of Maryland Baltimore
Estrogen Modulation of Glutamate Neurotransmission in the Aging Brain

Peter J. Bayley

University of California, San Diego
Serial Position Effects In Rats' Spatial Memory

Louis K. Chang

Washington University School of Medicine
Isoform-specific Effects of ApoE on Beta-amyloid Deposition and Inflammation In Vivo

Isaac S. Cheng

Tufts University
Identification and Characterization of Caspase(s) Responsible for the Alternative Endoproteolysis of Presenilins During Neuronal Apoptosis

Christen M. Cullen

Massachusetts Institute of Technology
Hemodynamics in Aging and Alzheimer's Disease: An fMRI Study

Limor Deutsch

Boston University
Gene Transfer in the Aging Myocardial Cell

Christopher DeVry

University of California, Los Angeles
Protein Repair in the Biology of Aging

Dena Dubal

University of Kentucky
Neuroprotective Effects of Estrogen in Aging

Melissa Gill

Brown University
Effect of D1 Receptor Modulation on Memory in Aged Mice

Gerald J. Gracia

University of Florida
Host Defense Against Influenza in Aged Mice

Allen Harrison

University of Michigan
Aging and the Ubiquitination of the CD3-zeta Chain

John M. Hollander

University of Wisconsin, Madison
Aging and Antioxidant Enzyme Gene Regulation: Superoxide Dismutase Brought to Focus

Elizabeth T. Hsiao-Wecksler

University of California, Berkeley
Influence of Lower Extremity Joint Torques on Balance Recovery by Stepping

Lyndon Joseph

University of Arkansas
Weight Loss, Exercise, and Age: Effects on Insulin Action

Vivek Kaliraman

University of Medicine and Dentistry of New Jersey
Role of the SLX Proteins in rDNA Stability and Aging in Yeast

Richard Kwun

New York Medical College
The Use of Pulse Wave Velocity to Measure Age-related Arterial Stiffening in the Mouse

Peter H.U. Lee

Brown University
Tissue-engineered BioArtificial Muscles Transduced with the IGF-1 Gene Can Promote Motoneuron Sprouting and Muscle Fiber Innervation In Vitro

Malcolm A. Leissring

University of California, Irvine
Effects of Presenilin-1 on Calcium Signaling

Oren Levy

Emory University
Effects of FAD-Linked Presenilin-1 Mutations on Notch Signaling

Marisol E. Lopez

University of Wisconsin, Madison
Characterization of Age-associated Electron Transport System Abnormalities and Associated Fiber Atrophy in Rhesus Monkey Skeletal Muscle

Kevin M. Owen

Loyola University Medical Center
The Kinetics of β -Lymphocyte Production in Aged Animals

Marc D. Paradis

Massachusetts Institute of Technology
Presenilins 1 and 2: Effects of Pharmacologic Stimulation of Neurotransmitter Receptors Coupled to Phospholipase C, Phospholipase A2, or Adenylyl Cyclase Activity on their Cleavage, Transcription and Translation

Echo V. Rowe

University of Washington
Complementation of 4NQO Sensitivity in Sgs1 Mutant Strains of S. cerevisiae by the Human Werner Syndrome Protein

Aileen Wiglesworth

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Quantitative Assessment of Synaptic Density in Superior Parietal Lobule in Alzheimer's Disease

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Case Western Reserve University
Aging-related Defects in Complex III of Cardiac Mitochondria

1997 Scholars

Nael Al-Abdulla

Johns Hopkins University School of Medicine
Neocortical Brain Transplantation to Reverse Neuronal Apoptosis in the Adult Lateral Geniculate Nucleus and Restore Connectivity

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The Role of Protein N-myristoylation in Controlling Survival of Saccharomyces cerevisiae During Stationary Phase and Cellular Aging

Randall Bateman

Case Western Reserve University
Human Mesenchymal Stem Cell Interaction with Endothelial Cells During In Vitro Angiogenesis

Tammie Benzinger

University of Chicago
Stabilization and Characterization of an Intermediate Conformation of the Beta-amyloid Peptide of Alzheimer's Disease

Mark Borden

Allegheny University of the Health Sciences
Age-related Effects of Fracture Non-union Treatment Using a Novel Synthetic Bone Replacement

Connie Chen

Johns Hopkins School of Medicine
The Individual Impact of Dietary Fats and Antioxidant Vitamin Supplements in the Risk of Alzheimer's Disease

Jeff Coombes

University of Florida
The Effects of Vitamin E and Lipoic Acid Supplementation on Myocardial Ischemia-reperfusion in Senescent Rats

Michael Dobryansky

New York University School of Medicine
Angiogenesis and Prognosis of Colorectal Cancer

Kimberley Ekis

University of Michigan
Correlated Patterns of Epstein-Barr Virus Reactivation in Elderly Humans

Sara Evans

Baylor College of Medicine
Analysis of the Role of the Human Homolog of an Est2 Interacting Protein in Human Telomere Biology

Jonathan Fisher

Washington University School of Medicine
Effects of Ovariectomy and Estrogen Replacement on Rat Skeletal Muscle

Ariel Friedman

Columbia University
Enhanced Interaction of Advanced Glycation Endproducts (AGEs) with Their Cellular Receptor RAGE: Implications for the Pathogenesis of Diabetic Neuropathy

Barry Hoopengardner

University of Connecticut Health Center
Identification of a Temporally-responsive Region in the Genome of Drosophila melanogaster

Scott Jenkins

University of Alabama at Birmingham
Microtubule-associated Protein B as a Signal Transducer: Modulation by Signals Present in the Alzheimer's Disease Brain

Terry Jones

University of Kansas
Functional Consequences of Altered Expression Levels and Conformation of the Ryanodine Receptor Calcium Release Channel in Aged Skeletal Muscle

James Lee

Stanford University
In Vivo Target Specific Delivery of Liposome-encapsulated Doxorubicin into Mouse Tumor Model Using Magnetic Resonance Guided Focused Ultrasound

Paul Mack

University of Georgia
Theories of Aging: A Test for the Existence of Age-specific Mutations

Lemuel Newton

University of Florida College of Medicine
Enteric Immunization with Recombinant Vaccinia Virus

Christopher Norris

University of Virginia
Threshold for a Novel Form of Synaptic Plasticity: A Link between Ca²⁺ Regulation and Impaired Memory During Aging

Moyosore Onifade

Washington University School of Medicine
Role of Astrocytic apoE

Christopher Pastore

Tufts University
Age Effects on the Proportion and Protective Function of Circulating Endothelial Cell Progenitors

Jocelyn Peccei

University of California, Los Angeles
Heritability in the Age of Menopause

Mark Snow

University of Southern California
What is the Actual Relationship Between daf-12 and daf-2 in Caenorhabditis elegans Adult Longevity?

Maria Tresini

Allegheny University of the Health Sciences
Defect in the ras/MEK/MAP Kinase Signal Transduction Pathway in Senescent Human Cells

Jonathan Wanagat

University of Wisconsin-Madison
Mitochondrial Abnormalities in the Cardiomyopathy of the Aging Rat Heart

1996 Scholars

Kristin Baker

Tufts University
Neural Adaptation to Strength Training in the Elderly

Alex Dranovsky

Stony Brook Medical School, State University of New York
Role of APP in Microtubule Dynamics

Michael Eisenbraun

University of Michigan
Age-sensitive T-cell Subsets Marked by P-glycoprotein: Specific Responses to a Clonally Restricted Protein Antigen (Pigeon Cytochrome C)

Astrid Gutschmann

University of Texas Health Science Center
Does Overexpression of HSF1 in Human Diploid Fibroblasts Correct for the Age-related Decline in the Induction of Heat Shock Protein 70 Expression?

Nathan Hall

University of Cincinnati College of Medicine
Edema Reduction and White Matter Protection Following Treatment with a Phenylitronone Spine Trap in Experimental ICH

Edward Huey

Stanford University
The Intracellular Effects of Stress Hormones on Neurons

Peter Kennedy

University of Washington
Mechanisms of Age-dependent Loss of DNA Repair Capacity in Human Brain

Steven Kleopoulos

Trinity College
Manipulation of Hypothalamic Neuropeptide Y Gene Expression During Aging

Shi Li

University California, San Diego
Glutamate Transporters and Synaptic Pathology in Alzheimer's Disease

David Lieberman

University of California, Los Angeles School of Medicine
Second Messenger Actions of Beta-amyloid Peptides

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University of Medicine and Dentistry of New Jersey

The Effect of Aging on Rhythmicity

Marta Margeta

University of Illinois

G-proteins Involved in the Calcium Current Inhibition Induced by Substance P and Neurotensin

Ewan McNay

University of Virginia

Determination of the Effects of Aging on Extracellular Brain Levels of Glucose

Brian Murphy

Washington University School of Medicine

Role of apoE and LRP in Neuronal Plasticity

Erik Naylor

Northwestern University

Novel Animal Model for Exploring the Delay of Sleep and Circadian Rhythms in the Elderly

Lemuel Newton

University of Florida College of Medicine

Enhancing Influenza Vaccine Effectiveness

Jason Ogiste

Cornell University Medical College

Redox Regulation of Signal Transduction

Andrew Rogove

State University of New York, Stony Brook

+PA Mediates Microglial Activation via a Non-proteolytic Mechanism

Sheila Scoville

Eastern Virginia Medical School

The Impact of Menopause on Primary Sensory Neurons

Xiaoming Sun

University of Connecticut Health Center

Optimal Stimulus Parameters for the Measurement of Distortion Product Otoacoustic Emissions in a Mouse Model of Presbycusis

Gina VandenLangenberg

University of Wisconsin

Relationship Between Antioxidant Supplement Use and Risk of Age-related Maculopathy

Tessa Walters

The Parkinson's Institute

Biochemical and Immunocytochemical-stereological Analysis of Mouse Nigrostriatal Degeneration after Exposure to Dithiocarbamates and MPTP

Conrad Weihl

University of Chicago

Neuronal Gene Delivery via Adenoviruses with Bicistronic Constructs in the Study of Selective Motor Neuron Cell Degeneration

Amy Whitetree

University of Oklahoma Health Sciences Center

The Cell Body Response to Axotomy in Aging Motor Neurons In Vitro

Wenjun Zhang

University of South Florida

Kainate-induced Expression of Matrix Metalloproteinases in Brains from Old Rats

1995 Scholars

Harleen Ahuja

Queens College

A Genetic Approach to Understanding Molecular Mechanisms of Cell Death

Kaveh Ashrafi

Washington University

Protein N-Myristoylation and Cellular Aging

Jay Binder

Case Western Reserve University

Probing of Glucose-mediated Crosslinking Sites in γ Crystallins Using Site Directed Mutagenesis

Kit Mui Chiu

University of Wisconsin-Madison

Effects of Age on Apoptosis of Pig Osteoblast-progenitor Cell Culture

David DiLoreto, Jr.

University of Rochester

The Effects of Retinal Transplantation on the Age-related Retinal Degeneration in the Fischer 344 Rat

Oren Friedman

Thomas Jefferson University

Replacement of SV40 T antigen by IRS-1 and Shc as Factors in Cellular Transformation

Joshua Garren

Brown University

A Model for Studying Activity-driven Synaptic Plasticity

John Heymach

Stanford University Medical School

The Targeting of Neurotrophins and Their Receptors by Neurons

Alon Kahana

University of Chicago

A Genetic and Molecular Investigation of Telomere Structure and Function

Christopher Kirk

University of Michigan

Role of 14-3-3 Proteins in T-cell Activation: Affects on Aging

Leslie Pejic

University of Illinois at Chicago

Mechanisms of Neuron Aging

Michael Rogers

Kent State University

Myosin Heavy Chain Alterations During Eight Weeks of Heavy Resistance Training in Active Elderly Females

Neha Shah

University of Florida College of Medicine

Aging and NPY Expression After AAV-Mediated Gene-delivery in Brain

Jordan Shin

University of Alabama at Birmingham

Fibroblast/Growth Factor Modulates Peroxynitrite-induced Apoptosis

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University of Maryland at Baltimore

Energy Metabolism in Congestive Heart Failure Patients

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Case Western Reserve

Biological Effects of Protein Glycation

Deborah Ferrington

University of Kansas

The Role of Protein Turnover in Aging of the Sarcoplasmic Reticulum Ca-ATPase

Timothy Hughes

Baylor College of Medicine

Initial Work Toward Characterization of the SDI-3 Gene

Van Khank Huynh

Tufts University School of Medicine

Effect of Aging on the In Vitro Formation of Haloperidol Pyridinium, a Potentially Neurotoxic Metabolite of Haloperidol

Mark Kadrofske

Michigan State University

Regulation of Expression of a Lectin in Senescent Human Fibroblasts

Soo-hyun Kim

University of Medicine and Dentistry of New Jersey

Graduate School of Biomedical Science Characterization of Growth Suppressor Gene on Human Chromosome 6

Kevin King

University of Missouri

Genetic Interactions of daf-2 with daf-3 & daf-5 with Respect to Life Span & Larval Development in C. elegans

Xiao Su

University of Alabama at Birmingham

FAS Apoptosis and HEPH Function with Aging

Gina Uken Trebilcock

University of Arkansas

Role of Transcription Factor Nuclear Factor Kappa β in Aging

Melissa Williams

University of Texas Health Science Center at San Antonio

Construction of a Transgene to be Used in the Production of Transgenic Mice That Overexpress Catalase

Xiaowei Xu

Bowman Gray School of Medicine at Wake Forest University

Effects of Age on IGF-signal Transduction

Richard Yu

Northwestern University Medical School

Molecular Response to Inflammation and Aging

AFAR/The John A. Hartford Foundation Academic Fellowship Program in Geriatric Medicine and Geriatric Psychiatry

One- to two-year fellowship awards supported the development geriatric and geriatric psychiatry fellows who addressed complex basic, clinical, and health services research or educational projects. Sponsored by The John A. Hartford Foundation. This program was active from 1999 to 2002.

2002 Fellows

Julie Bynum, M.D., M.P.H.

Johns Hopkins University

Analysis of Expenditures for AD Patients

Lisa Honkanen, M.D.

Weill Medical College of Cornell University

External Hip Protectors

Grace Y. Jenq, M.D.

Yale University School of Medicine

Determining Adherence to a Pain Management Model in the Nursing Home Setting

Jennifer M. Kapo, M.D.

University of Pennsylvania

How Can We Improve Services for the Elderly at the End-of-Life?

Reena Karani, M.D.

Mount Sinai School of Medicine

An Evidence-based Unfolding Case with a Linked Objective Structured Clinical Examination (OSCE)

Victor J. Legner, M.D.

University of Washington School of Medicine

The Importance of Medical Comorbidity and Preoperative Functional Status in Predicting Functional Decline in Older Adults Undergoing Nonemergent Surgery

Carri R. Levy, M.D.

University of Colorado Health Sciences Center

Hospital versus Nursing Home: Determinants of Site and Cost of Death Among Nursing Home Residents

Robert J. Pignolo, M.D., Ph.D.

University of Pennsylvania School of Medicine

The GNAS1 Gene as a Regulator of Osteoblast Differentiation and Molecular Target for the Stimulation of Bone Formation

James L. Rudolph, M.D.

Harvard Medical School

Relationship of Intraoperative Trans Cranial Doppler (TCD) Output to Delirium in Patients Undergoing Coronary Artery Bypass Graft (CABG) Surgery

David Sengstock, M.D., M.S.
University of Michigan
Predictors of Orthostatic Hypotension: Non-invasive Arterial Stiffness Measurement

Crystal Simpson, M.D., M.H.S.
Johns Hopkins University
Factors Influencing Outcomes for Older African-American Women with Asthma

Daniel E. Wollman, M.D., Ph.D.
Mount Sinai School of Medicine
Perfusion MRI of Parietotemporal Cortex and Hippocampus in Alzheimer's Disease

Laurel B. Yates, M.D.
Harvard Medical School
Beyond Bone Density: A Prospective Study of Hip Geometry and Structural Differences as Predictors of Hip Fracture Among Elderly Long-term Care Residents

2001 Fellows

Howard J. Aizenstein, M.D., Ph.D.
University of Pittsburgh Medical Center
Functional MRI Investigations of the Frontostriatal System in Late-life Depression

Robert C. Blackmon, M.D.
Medical College of Virginia
Does Reading Religious Literature Reduce Cortisol Secretion in Elderly Patients?

Cynthia M. Boyd, M.D., M.P.H.
Johns Hopkins University School of Medicine
Hospitalization and Disability in a Cohort of Moderately to Severely Disabled Older Women

Cynthia J. Brown, M.D.
Yale University School of Medicine
Immobility in the Hospitalized Elderly Patient: Prevalence and Impact on Functional Decline

Bruce Carruthers Bonnell, M.D.
Harvard Medical School
Medications as Risk Factors for Falls Among the Hospitalized Elderly

Yohannes Endeshaw, M.D., M.P.H., F.A.C.P.
Emory University School of Medicine
Is Obstructive Sleep Apnea More Prevalent in Older Adults with Nocturia Compared to Older Adults without Nocturia?

Karen E. Glasser Scandrett, M.D.
Harvard Medical School
Measures of Religiosity in a Frail and Aged Jewish Population: Validity and Application

Michele Y. Lee, M.D.
University of New Mexico
Hospice/Palliative Care Training of Family Practice Residents

Felice LePar, M.D.
University of Pennsylvania School of Medicine
Older Cancer Patients' Attitudes Toward Participation in Research

Stacie Levine, M.D.
Mount Sinai School of Medicine
Risk Factors and Outcomes in Hospitalized Adults over Age 85

Karol Mansilla, M.D.
Medical College of Virginia
Mechanisms of Relative Hypogonadism in Aging Men

Stacy Meyer Fischer, M.D.
University of Colorado Health Science Center
The Effects of Palliative Care Education on Residents' Knowledge, Attitudes, and Care of Patients

Jennifer D. Moore, M.D.
Duke University Medical Center
A Study to Determine Specific Barriers to a Good Death at a Tertiary Care, Academic Medical Center and to Initiate Change

Jennifer Rhodes-Kropf, M.D.
Mount Sinai School of Medicine
How Interns Learn to Care For Dying Patients

Robert G. Riekse, M.D.
University of Washington School of Medicine
Vascular Risk Factors in Alzheimer's Patients With and Without Cerebral Vascular Infarctions: A Clinico-neuropathological Study

Xiangrong Shao, M.D.
University of Maryland School of Medicine
Longitudinal Assessment of Functional Performance in Older Peripheral Arterial Disease

Lisa M. Walke, M.D.
Yale University School of Medicine
Longitudinal Study of the Burden of Symptoms Among Community Dwelling Elders with Terminal Diseases

Chia-Ying Wang, M.D.
University of Texas Southwestern Medical Center
The Effect of Potassium Citrate on Calcium Balance and Bone Metabolism in Healthy Elderly Women

Heidi R. Wierman, M.D.
University of Rochester School of Medicine
Novel Methods for Functional Assessment

2000 Fellows

Julie Beales, M.D.
Medical College of Virginia
Does the Resident Assessment Instrument Improve Identification and Treatment of Pressure Ulcer or Falls

Malaz Boustani, M.D.
University of North Carolina
Clinical Trial of the Effect of Donepezil on Aggressive Behavior in Institutionalized Persons with Moderate/Advanced Dementia and Severe Behavioral Problems

Donna M. Brady Raziano, M.D., M.B.A.
University of Pennsylvania
Do ACE Units Work?

Jennifer B. Breznay, M.D.
Mount Sinai School of Medicine
Communication Among Health Professionals in the Home Care Setting

Cynthia M. Carlsson, M.D.
University of Wisconsin Medical School at Madison
The Effect of Folic Acid Supplements on Endothelial Function in Older Adults with Hyperhomocysteinemia

Cathleen Colon-Emeric, M.D., M.H.Sc
Duke University Medical Center
Improving Primary and Secondary Fracture Prevention in Elderly

Geraldine Fabregas, M.D.
University of Connecticut Health Center
The Effects of Testosterone on Cognitive Function in Men with Early Cognitive Decline

Helen M. Fernandez, M.D.
Mount Sinai Medical Center
House Staff Awareness of their Older Inpatients' Risks for Developing 'Hazards of Hospitalization'

Julie K. Gammack, M.D.
University of Washington
Development of an Expanded Geriatric Curriculum for Internal Medicine Residents and Medical Students at the University of Washington Medical Center

Wendolyn S. Gozansky, M.D., M.P.H.
University of Colorado Health Sciences Center
Mechanisms of Visceral Fat Accumulation in Older Women

Mitchell T. Heflin, M.D.
Duke University Medical Center
Screening for Occult Malignancy in the Elderly

Cynthia Holzer, M.D.
University of Cincinnati
Do Beliefs and Attitudes about Dementia Create Barriers to Appropriate Preventive Care?

Peifeng Hu, M.D., Ph.D.
University of California, Los Angeles School of Medicine
Pathophysiologic Mechanisms for Low Serum Cholesterol and High Mortality Association in the Elderly Population

Lona Mody, M.D.
University of Michigan
Clinical Outcomes of Community Acquired Pneumonia in the Elderly: Importance of Functional Status

Karen A. Morgan Blackstone, M.D.
Harvard Medical School
The Response of Elders with Impaired Bladder Emptying to Pharmacologic Treatment for Urge Incontinence

Maj-Stina L. Rudolph, M.D.
University of California, Los Angeles
A Randomized, Double-blind, Placebo-controlled Study of S-adenosylmethionine in the Treatment of Alzheimer's Disease

Joseph Shega, M.D.
University of Chicago
Enteral Nutrition - Who Should We PEG next? Reasons for Percutaneous Endoscopic Gastrostomy Tubes in Endstage Dementia Patients

Dellara F. Terry, M.D., M.P.H.
Harvard Medical School
New England Centenarian Offspring Study

Michi Yukawa, M.D.
University of Washington
Involuntary Weight Loss in the Older Adults: The Influence of Cytokines and Leptin

1999 Fellows

Shiraz S. Ahmed, M.D.
University of Washington School of Medicine
Physical Function and Aging: Therapeutic Potential of Estrogen and Testosterone

Ali Ahmed, M.D.
University of Alabama at Birmingham
Association of Hospital Care Quality with Heart Failure Mortality and Readmissions

Jacob Blumenthal, M.D.
University of Maryland School of Medicine
The Neuropeptide Y1-Y5 Receptor and its Relationship to Obesity and Diabetes Mellitus

Stephen Bonasera, M.D., Ph.D.
University of California, San Francisco
5 HT Receptor Subtypes: Molecular and Behavioral Approaches to Study the Regulation of Posture and Locomotion

Ursula Braun, M.D.
Baylor College of Medicine
A Brief Cognitive Behavioral Intervention to Improve Functioning in Elderly Patients with Chronic Obstructive Pulmonary Disease

Jessica L. Israel, M.D.
Mount Sinai School of Medicine
Breaking Bad News to Older Adults

Laurie L. Lavery, M.D.
University of Pittsburgh
Are Long-term Care Needs Predicted by Screening for Executive Control Dysfunction?

Cathy Lee-Chopra, M.D.
University of Michigan
Effect of Raloxifene on Insulin Sensitivity in Postmenopausal Women

Erik J. Lindbloom, M.D.
University of Missouri at Columbia
The Missouri Elder Mistreatment Fatality Study

James M. Martau, M.D.
University of Colorado
Evaluation of Nursing Home Quality Since the Implementation of the Resident Assessment Instrument

William G. Seavey, M.D., M.P.H.
University of California, Davis
Evaluation of a Community-based Telephone Intervention to Increase Physical Activity Among Seniors

Medical Student Summer Research Training in Aging Program

(formerly known as the Medical Student Geriatrics Scholars Program)

Eight- to twelve-week awards encourage medical students — particularly budding researchers — to undertake research projects and consider a career in geriatrics. AFAR collaborates with the NIA and several foundations to continue and strengthen the original Hartford/AFAR Medical Student Geriatric Scholars Program. Current sponsors include: National Institute on Aging, The John A. Hartford Foundation, The William Randolph Hearst Foundation, The Cleveland Foundation, Cardinal Health Foundation, Lillian R. Gleitsman Foundation, Community Health Foundation of Western & Central New York, The New York Community Trust and an anonymous donor. The Fan Fox and Leslie R. Samuels Foundation was a sponsor from 2000-2003.

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Cornell University

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Emory University

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Michael Ford
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Harvard Medical School

Molly Fuentes
University of Michigan Medical School

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John A. Burns School of Medicine at the University of Hawaii at Manoa

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Case Western Reserve University

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Mount Sinai School of Medicine

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Washington University School of Medicine

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Emory University

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University of New England College of Medicine

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University of Michigan

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Mount Sinai School of Medicine

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Johns Hopkins University School of Medicine

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Brant Ullery
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Victor Wu
Emory University

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Jacqueline Yuen
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Andrea Zapeda
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David Zinn
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Kathryn A. Artis
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Aisha Baqai
Cornell University

Russell Berger
Mount Sinai School of Medicine

Gwen Bernacki
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Laurel E. Blackman
University of North Texas Health Science Center- Texas College of Osteopathic Medicine

Brittany N. Bohinc
Northeastern Ohio Universities College of Medicine

Yasmin Bootwala
Baylor College of Medicine

Catherine Buell
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Oklahoma State University

Kristin K. Martin
Oklahoma State University

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Amir Soumekh
Mount Sinai School of Medicine

Hana Takusagawa
Mount Sinai School of Medicine

Joseph Tang
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Elizabeth H. Tsai
University of Medicine and Dentistry of New Jersey School of Osteopathic Medicine

Veronica Vasquez
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Giorgio Veneziano
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Cong-Zhi Cecile Zhao
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2003 Scholars

Crystal L. Adams
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April Alford
Baylor College of Medicine

Jonathan Austrian
Cornell University

Lisa M. Bowe
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Daniel J. Burdick
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Michelle M. Cabrera
University of Maryland School of Medicine

Shannon M. Campbell
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Anne K. Chung
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University of South Dakota

Carlos Weiss
University of Michigan

Michael Widlansky
University of Michigan

Timothy Willingham
Mayo Clinic

Flora Yao
Loma Linda University

1995 Scholars

Julie Abrahamson
Johns Hopkins University

Eugene Ahn
New York University Medical Center

Angela Allen
Saint Louis University

Rendell Ashton
Johns Hopkins University

Neeraj Badjatia
Emory University

James Boyd
Saint Louis University

D. Allen Brantley
Wake Forest University

Jan Brink
University of California, Los Angeles

William Buxton
Emory University

Julie Bynum
Johns Hopkins University

Kimberly Carter
Baylor College of Medicine

Annie Chen
Cornell University School of Medicine

Francis Coyle
University of Connecticut

Cynthia Dechenes
University of Rochester

Sophie Deng
University of Rochester

Cynthia Dennison
Saint Louis University School of Medicine

Roni Devlin
University of Colorado

Elaine DiCostanzo
Mount Sinai School of Medicine

Vamil Divan
State University of New York, Buffalo

Jesse Eisler
Mount Sinai School of Medicine

Frederick Faust
Case Western Reserve

Sara Fischer
University of South Dakota

Tamara Fong
Ohio State University College of Medicine

Anne Galbraith
University of Utah

Ruth Graupera
Johns Hopkins University

Jennifer Grot
Saint Louis University

Lucy Guerra
Mount Sinai School of Medicine

Susan Hall
Loma Linda University

Sara Howe
New York Medical College

Jordan Karp
University of Pittsburgh

Pamela Kirschner
Harvard University

Alayne Kulvicki Markland
University of North Texas

George Kunz
University of Michigan

Siavash Kurdistani
Harvard University

Timothy Kuwada
University of Connecticut

Alpa Laheri
Johns Hopkins University

Timothy Lewis
Wayne State University

Hallie Lightdale
Mount Sinai Medical Center

Jerry Lin
Harvard Medical School

Elizabeth Lindenberger
Stanford University

Shaden Marzouk
Saint Louis University

Maritess Mauricio
Stanford University

Lisa McAllister
Ohio University College of Medicine

R. Steven Meadows
Wake Forest University School of Medicine

Ellen Marie Mongan
Columbia University

Anna Monias
Mount Sinai School of Medicine

Brian Mulhall
Saint Louis University

Christopher Ng
University of California, Los Angeles

Philip Nivatpumin
University of California, Los Angeles

Ghadir Oloumi
Mount Sinai School of Medicine

Elizabeth Rashley
University of South Carolina

Katherine Shiue
Washington University

Crystal Simpson
University of Texas Health Science Center at San Antonio

Nitin Soorya
Saint Louis University

Jeanne Thompson
University of Pittsburgh

Raymond Thornton
University of Pittsburgh

Thao Truong
Harvard University

Frances Valdes
Johns Hopkins University

Brinda Vora
Jefferson Medical College

Neal Waechter
University of Michigan

Herschel Wallen
University of Michigan

Kathleen Walsh
University of Des Moines College of Osteopathic Medicine

Katie Ward
Saint Louis University

Paul Wise
Johns Hopkins University

Danielle Woodall
State University of New York, Buffalo

Edward Yian
University of Michigan

Marcia Zuckerman
Harvard University

1994 Scholars

Preetinder Brar
Harvard University

Julie Bynum
Johns Hopkins University

Kimberly Cingle
Case Western Reserve University

Judith Cymerman
University of Southern California

Laura B. Dunn
University of California, San Francisco

Jesse Eisler
Mount Sinai School of Medicine

William Garner
New York Medical College

Ceri Hadda
Mount Sinai School of Medicine

Argye Hillis
Johns Hopkins University

Mwango Kashoki
Johns Hopkins University

Hai Kenney
Ohio University College of Medicine

Sally Lee
University of North Texas

Moshe Lewis
Mount Sinai School of Medicine

Mehran Mandegar
University of Rochester

R. Steven Meadows
Wake Forest University

Marc Mendes
George Washington University

Lisa Moran
Saint Louis University

Christine Murphy
University of Minnesota

Thomas Murray
University of Connecticut

Jeff Odiet
Harvard Medical School

Medda Rauhut
Baylor College of Medicine

Samantha Segal
University of Connecticut

Lydia Shajenko
University of Connecticut

Jeffrey Suchniak
Bowman Gray School of Medicine at Wake Forest University

Joyce Tang
Stanford University

Susan Thomas
Texas A&M University

Chris Tsuneishi
Chicago Medical School

Cordelia Uddoh
University of Pennsylvania

Kimberly Vesco
University of California, San Diego

Richard Wong
New York University Medical Center

Rhonda Yantiss
Harvard Medical School

AFAR-Ohio Affiliate Medical Students

2005 Scholars

Jeremy Broadnax
Case Western Reserve University

Mita Deoras
Northeastern Ohio Universities College of Medicine

Paul Gunn
Case Western Reserve University

Maxwell Hill
University of Cincinnati College of Medicine

Jessica Holmes
Case Western Reserve University

Evan Howe
Case Western Reserve University

Christine Hung
Case Western Reserve University

Alexander Larson
Ohio State University College of Medicine

Ovidiu Marina
Case Western Reserve University

Eric McLoney
Ohio State University College of Medicine & Public Health

Leland Metheny
Case Western Reserve University

Jeanie Wang
Northeastern Ohio Universities

Aimee Wing
Case Western Reserve University

AFAR/ISOA Program for Drug Discovery in Cognitive Decline and Alzheimer's Disease

One-to two-year awards provided support for innovative drug discovery projects by junior faculty (M.D.'s and Ph.D.'s) interested in a career in drug discovery in Alzheimer's disease and related dementias. Sponsored by the Institute for the Study of Aging. This program was active from 2000 to 2001.

2001 Recipients

Beth Tyler-McMahon, Ph.D.
Mayo Clinic, Jacksonville
Peptide Nucleic Acids Targeted to the Amyloid Precursor Protein

Yanming Wang, Ph.D.
University of Pittsburgh Medical Center
Amyloid Probes in Aging and Alzheimer's Disease: Dual Agents for Both PET and SPECT

2000 Recipient

Jack T. Rogers, Ph.D.
Harvard Medical School
A New Translation Regulatory Target in the Alzheimer's APP Transcript

AFAR/Hartford Gero-Physician-Scientist Training Program

This fellowship program aimed to develop a cadre of physician-scientists qualified to teach and do research in their fields of specialization as they relate to the treatment of the elderly, and to establish a knowledge base to enhance medical student, resident and fellowship training in these disciplines. This program was active from 1992 to 1993.

1993 Fellows in Geriatric Gynecology

Lauren Nathan, M.D.
University of California, Los Angeles

Carmen Sultana, M.D.
University MacDonald Womens Hospital/
Case Western Reserve University

M. Chrystie Timmons, M.D.
Duke University Medical Center

1992 Fellows in Anesthesiology

G. Alec Rooke, M.D., Ph.D.
University of Washington School of Medicine

Randall M. Schell, M.D.
Duke University Medical Center

AFAR/The Foundation for Fighting Blindness Joint Program for Career Development Awards in Support of Research on Age-Related Macular Degeneration

One-to two-year awards created for junior investigators to facilitate advances in laboratory and clinical research, enhance the understanding of the etiology and pathogenesis of age-related macular degeneration, and develop innovative strategies to prevent, treat or cure this blinding disease.

2001 Recipients

Deborah A. Ferrington, Ph.D.
University of Minnesota
Proteomics of Modified Retinal Proteins with Aging

Vassiliki Poulaki, M.D.
Massachusetts Eye and Ear Infirmary
Mechanisms of Neovascularization in Age-Related Macular Degeneration

AFAR Milestones

1981

■ Irving S. Wright, M.D., gathers aging research leaders at the annual meeting of the American College of Physicians in New Orleans and founds AFAR.

1988

■ AFAR holds first grantee conference, bringing scientists together to share information, discuss research and create opportunities for future cooperation.

1996

■ AFAR launches four-part media briefing series on older women's health with support from the Bristol-Myers Squibb Foundation.

1998

■ The John A. Hartford Foundation and AFAR create the Academic Fellowship Program in Geriatric Medicine and Geriatric Psychiatry.

1982

■ The first AFAR Research Grants are awarded.

■ First Irving S. Wright Award given to Nathan W. Shock, Ph.D.

1991

■ The John A. Hartford Foundation funds new Gero-Physician-Scientist Training Program to provide physicians in various specialties an opportunity to pursue training and research in geriatric medicine.

■ AFAR develops a website, www.afar.org.

1999

■ Pfizer Inc joins with AFAR to create the Pfizer/AFAR Research Grant Program.

1984

■ First AFAR state affiliate formed in Ohio.

1993

■ Hadley Ford is elected Chair of the Board of Directors.

1997

■ AFAR launches Dorothy Dillon Eweson Lecture Series to educate medical specialists on advances in aging research within their own fields.

■ Diane Nixon names grant in memory of her mother, Nan Allen Nixon.

■ The John A. Hartford Foundation funds AFAR to establish a Coordinating Center for the Hartford Foundation's Centers of Excellence Initiative.

2000

■ AFAR and the Institute for the Study of Aging create the AFAR/ISOA Program for Drug Discovery in Cognitive Decline and Alzheimer's Disease.

■ The Fan Fox and Leslie R. Samuels Foundation adds support for local medical students through the AFAR/Samuels Foundation Medical Student Geriatric Scholars Program.

1986

■ Charles A. Dana AFAR Traveling Scholars Program established to encourage interest in geriatric medicine among future physicians.

1994

■ AFAR receives \$14 million grant from The John A. Hartford Foundation, The Atlantic Philanthropies and The Commonwealth Fund to administer the Paul Beeson Physician Faculty Scholars in Aging Research Program, the nation's largest non-governmental award program in academic geriatrics and aging research.

■ AFAR launches Lifelong, a newsletter for older patients published in Geriatrics magazine.

■ The Merck Company Foundation and AFAR create the Merck/AFAR Research Scholarships in Geriatric Pharmacology.

■ AFAR launches Infoaging.org, a consumer information website.

■ The Starr Foundation joins the team of Beeson Program sponsors.

1987

■ George E. Doty is elected Chair of the Board of Directors.

■ The Merck Company Foundation sponsors new fellowships in geriatric clinical pharmacology.

■ AFAR and The John A. Hartford Foundation collaborate to start the Hartford/AFAR Medical Student Geriatric Scholars Program.

■ The Glenn Foundation for Medical Research funds new Glenn/AFAR Student Scholarship Program for Research in the Biology of Aging.

■ First "Friends of AFAR" dinner is held in New York City.

■ AFAR goes global with the first International Conference on Biomedical Aspects of Aging Research held in Venice, Italy.

■ Sponsors of the Paul Beeson Physician Faculty Scholars in Aging Program commit additional \$14 million to fund 31 new Scholars.

2001

■ AFAR and the Glenn Foundation for Medical Research create awards program for post-doctoral fellows.

■ Foundation for Fighting Blindness and AFAR establish a joint program for career development awards in support of research on age-related macular degeneration.

■ Annual AFAR Research Grants top \$1 million.

2002

- AFAR receives funding from the Merck Company Foundation with a matching grant from the Glenn Foundation for Medical Research to co-fund a segment of the Science of Aging Knowledge Environment (SAGE-KE) project.
- The William Randolph Hearst Foundation contributes to the AFAR Research Grant Program.

2003

- AFAR launches upstate affiliate program in Rochester, NY, funded by the Starr Foundation.
- The Ellison Medical Foundation and AFAR team up to support senior post-doctoral fellows.
- AFAR and the Merck Institute on Aging and Health create HealthCompass.org.

2004

- Diana Jacobs Kalman elected Chair of the Board of Directors.
- AFAR launches southeast affiliate at Emory University in Atlanta, GA.
- AFAR celebrates the 10th anniversary of the Beeson Program with the added support of the National Institute on Aging and the new name of the Paul B. Beeson Career Development Awards in Aging Research.
- The Pfizer/AFAR Innovations in Aging Research Award is created.
- The William Randolph Hearst Foundation adds support to the Medical Student Geriatric Scholars Program.
- Terrapin Society created.

2005

- The Glenn Foundation and AFAR collaborate to create the Glenn/AFAR Breakthroughs in Gerontology (BIG) Award.
- AFAR, The John A. Hartford Foundation and other foundations partner with the NIA on the Medical Student Geriatric Program, renamed the Medical Student Summer Research Training in Aging Program. Foundations include The William Randolph Hearst Foundation, The Cleveland Foundation, Cardinal Health Foundation, Lillian R. Gleitsman Foundation, Community Health Foundation of Western & Central New York, The New York Community Trust and an anonymous donor.
- The Novartis Foundation joins with AFAR to establish the Aging Well Initiative.

2006

- The Julie Martin Mid-Career Award in Aging Research is created by the Ellison Medical Foundation.
- The Fannie E. Rippel Foundation establishes the Fannie E. Rippel Foundation/AFAR New Investigator Awards on Gender Differences in Cardiovascular Disease in Older Adults.

Major Supporters of the 2005 Grant Programs

The AFAR Board of Directors

Anonymous Donor

The Atlantic Philanthropies

The Bedminster Fund

Cardinal Health Foundation

The Clarence and Anne Dillon Dunwalke Trust

The Cleveland Foundation

Community Health Foundation of Western & Central New York

Eisai Inc

The Ellison Medical Foundation

Lillian R. Gleitsman Foundation

The Glenn Foundation for Medical Research

The Partners of Goldman Sachs & Company

The John A. Hartford Foundation

William Randolph Hearst Foundation

Diana J. and C. A. Kalman

F. M. Kirby Foundation, Inc.

Merck Company Foundation

National Institute on Aging

The New York Community Trust

Diane Nixon

Pfizer Inc

The Richard and Hinda Rosenthal Foundation

Joseph L. K. Snyder Trust

The Starr Foundation

The Irving S. Wright Endowment

American Federation for  Research

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