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.

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
2005 AFAR Selection Committees

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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Washington University
Aging and the Immune System: Implications for Ocular Angiogenesis

Stanley Thomas Carmichael, M.D., Ph.D.
David Geffen School of Medicine at the University of California, Los Angeles
Molecular Profile of Neuronal Regeneration in the Aged Brain after Stroke

Christopher J. Chang, Ph.D.
University of California, Berkeley
Molecular Imaging Probes for Age-related Oxidative Stress and Damage

Jim R. Fadel, Ph.D.
University of South Carolina School of Medicine
Orexin Regulation of the Basal Forebrain Cholinergic System in Aged Rats

Insoo Kang, M.D.
Yale University School of Medicine
The Effect of Aging on IL-7-mediated CD8+ T-cell Survival

Radhakrishnan Nagarajan, Ph.D.
University of Arkansas for Medical Sciences
Modeling Changes in Myogenic Progenitor Potential with Age

Olav Rueppell, Ph.D.
University of North Carolina, Greensboro
Mitosis and Apoptosis in Relation to Lifespan in the Honey Bee (Apis Mellifera L.)

Hongbing Wang, Ph.D.
Michigan State University
β-Amyloid Precursor Protein-mediated Signaling Through FE65

Tian Wang, Ph.D.
Yale University School of Medicine
The Effect of Aging on Gamma Delta T-cell Response to Nile Virus Infection in Mouse Model

2004 Grantees

Gal Bitan, Ph.D.
Brigham and Women’s Hospital/Harvard Medical School
Development of Amyloid β-Protein Oligomerization Inhibitors

Bo-Chin Chiu, Ph.D.
University of Michigan
Effect of Aging on Early Events of Pulmonary Innate Immune Response to Mycobacterial Antigen Challenge in Mouse Models

2003 Grantees

Douglas E. Faunce, Ph.D.
Loyola University Medical Center
A Role for Natural Killer T-cells in Age-related Immune Dysfunction

Gonzalo G. Garcia, Ph.D.
University of Michigan
Effects of Surface Glycosylation in the Age-related Decline of T-cell function

Ming Guo, M.D., Ph.D.
David Geffen School of Medicine at the University of California, Los Angeles
Identifying Regulators of Gamma Secretase Implicated in Alzheimer’s Disease

Daniel G. Herrera, M.D., Ph.D.
Weill Medical College of Cornell University
Effects of Alcoholism on Neurogenesis in the Aged Brain

Elizabeth Jonas, M.D.
Yale University School of Medicine
Enhancement of Synaptic Function by a BCL-2 Family Protein

David E. Kang, Ph.D.
University of California, San Diego
Role of Presenilin in Phosphorylation of Tau

Brian K. Kennedy, Ph.D.
University of Washington
 Genome-wide Identification of Yeast Aging Genes

Christine Marie, Ph.D.
Georgetown University Medical Center
Estrogen Modulation of the Renin-Angiotensin System in the Pathogenesis of Age-related Progressive Renal Disease

Kelly L. Tremblay, Ph.D.
University of Washington
Aging and the Neural Representation of Speech-Sounds: Effects of Hearing Aid Amplification and Auditory Training

Edwin J. Weeber, Ph.D.
Vanderbilt University Medical Center
The Role of ApoE Receptors in Hippocampal-dependent Synaptic Function

Gang Yu, Ph.D.
University of Texas Southwestern Medical Center
Dissecting Molecular Interactions of PSEN-2 in the β-Secretase Complex

2002 Grantees

Mary L. Bouxsein, Ph.D.
Beth Israel Deaconess Medical Center
The Role of β-Arrestin2 in Regulating the Effects of PTH in Bone

Francesco S. Celii, M.D.
University of Maryland, Baltimore
Type-2 Deiodinase Mutations and Insulin Resistance in the Old Order of Amish

Linda L. Chao, Ph.D.
University of California, San Francisco/Veterans Affairs Medical Center
fMRI of Attention and Inhibitory Control in Normal Aging

Paola Fabrizio, Ph.D.
University of Southern California
The Role of Evolutionary Conserved Proteins in Yeast Longevity

Thomas J. Gould, Ph.D.
Temple University
Investigation of Age-related Changes in Molecular Substrates of Learning in Transgenic Mice

Mark Hoffman, Ph.D.
Oregon State University
Reflex Modulation during Manipulation of the Sensory Systems

Xudong Huang, Ph.D.
Massachusetts General Hospital
Homocysteine, Oxidative Stress and Mitochondria-dependent Neuronal Apoptosis in Alzheimer’s Disease

Mark Laubach, Ph.D.
The John B. Pierce Laboratory
Neurophysiological Correlates of Aging on Reaction Time Performance

Philippe Marambaud, Ph.D.
Mount Sinai School of Medicine
Identification of Novel Age-at-Onset Genes on Chromosome 10 in Alzheimer’s Disease

Giovanni Paternostro, M.D., Ph.D.
Burnham Institute
Genetic Analysis of Cardiac Aging in Drosophila

Qitao Ran, Ph.D.
University of Texas Health Science Center at San Antonio
Will Reduced Level of PHGPx (GPx4) in Brain Facilitate the Formation of Amyloid Plaques?

P. Hemachandra Reddy, Ph.D.
Oregon Health and Science University
Molecular Analysis of Synaptophysin Gene: A Possible Genetic Link with Late-onset Alzheimer’s Disease

Molly Shores, M.D.
Veterans Affairs Puget Sound Health Care System
The Effect of Testosterone Treatment on Depressive Symptoms and Quality of Life in Older Men with Age-associated Hypogonadism and Subsyndromal Depression

Adrian M. Timmers, Ph.D.
University of Florida
Accumulation of Age-pigment in Retinal Pigment Epithelium and Age-related Macular Degeneration

* Institution affiliation at time of award listed
2001 Grantees

Christy S. Carter, Ph.D.
Wake Forest School of Medicine
Physical Ability in Aged and Dwarf (dw/dw) Rats: Isolating Growth Hormone Effects

John P. Case, M.D.
Rush-Presbyterian-St. Luke’s Medical Center
Relationship between Dynamic Joint Loading, Bone Mineral Density, and Radiographic Predictors of Early Osteoarthritis in the Elderly

Atanu Duttaroy, Ph.D.
Howard University
Genomic Regions Involved in Manganese Superoxide Dismutase Regulation in Drosophila

Peter Erhardt, M.D., Ph.D.
Boston Biomedical Research Institute
Regulation of Cardiomyocyte Survival by MEF2

Karen Furie, M.D., M.P.H.
Spaulding Rehabilitation Hospital
Apolipoprotein E Genotype and Functional Recovery Following Rehabilitation after Ischemic Stroke

ZhongMao Guo, M.D., Ph.D.
Meharry Medical College
Does Calorie Restriction Retard Atherosclerosis in Transgenic Mice?

David J. Jarrard, M.D.
University of Wisconsin
Genomic Imprinting Alterations in Senescence

Dawn A. Lowe, Ph.D.
University of Minnesota
Molecular Mechanism of Age-related Declines in Muscle Contractility

Gianni F. Maddalozzo, Ph.D.
Oregon State University
The Separate and Combined Effect of Estrogen Replacement Therapy (ERT) and Resistance Training on the Musculoskeletal and Nervous System in Early Postmenopausal Women

Robert Moir, Ph.D.
Massachusetts General Hospital
LRP-mediated Uptake of Redox Modified AD Associated Proteins

Laura E. Niklason, M.D., Ph.D.
Duke University Medical Center
Telomerase in Engineered Vascular Tissues

Laura E. Niklason, M.D., Ph.D.
Duke University Medical Center
Telomerase in Engineered Vascular Tissues

Maricarmen Planas-Silva, Ph.D.
Penn State University College of Medicine
Estrogen Receptor Expression and Function in the Aging Mammary Gland

Troy T. Rohn, Ph.D.
Boise State University
The Role of Caspase-8 in Mediating Neuronal Cell Death Associated with Alzheimer’s Disease: A Potential Therapeutic Target

Patricia W. Slatlum, Pharm.D., Ph.D.
Virginia Commonwealth University
Age-related Differences in the Sensitivity and Development of Acute Tolerance to Ethanol in Humans

Sundar Srinivasan, Ph.D.
University of Washington
Rest-inserted Loading: Examination of a Novel Osteogenic Stimulus for the Aged Skeleton

Mei Sun, Ph.D.
West Roxbury Veterans Affairs Hospital/Harvard Medical School
Developing Gene Therapy for Parkinson’s Disease Using Helper Virus-free HSV-1 Vectors

Ruben G. Vidal, Ph.D.
Indiana University School of Medicine
The BRI Gene Family and Familial British and Danish Dementia

Suresh Viswanathan, M.S., Ph.D.
Indiana University School of Optometry
Identifying the Retinal Loci of Age-related Changes in Rod-mediated Visual Function

Beverly M. Yashar, M.D., Ph.D.
University of Michigan
Molecular Genetics Studies of Age-related Macular Degeneration

Clare E. Yellowley, Ph.D.
Penn State University College of Medicine
Interactions of Age and Ovariectomy on Bone Cell Mechanosensitivity: Recovery by PTH Administration

2000 Grantees

James A. Carson, Ph.D.
University of South Carolina
Serum Response Factor’s Role in Aged Skeletal Muscle’s Blunted Remodeling Response to Chronic Stretch

Qin Mary Chen, Ph.D.
University of Arizona
Molecular Mechanisms of Oxidative Stress Response in Cardiomyocytes

Charleen T. Chu, M.D., Ph.D.
University of Pittsburgh
Superoxide and Nitric Oxide in a Parkinsonian Mouse Model

Ana Maria Cuervo, M.D., Ph.D.
Albert Einstein College of Medicine
Changes in the Lysosomal Receptor for Chaperone-mediated Autophagy with Age

Esther Dupont-Versteegden, Ph.D.
Donald W. Reynolds Center on Aging at the University of Arkansas Medical School
The Role of Calcinurin in Age-associated Muscle Atrophy

David A. Goukassian, M.D., Ph.D.
Boston University School of Medicine
The Effect of Aging on DNA Repair and Mutation Rate: Modulation by DNA Oligonucleotide Therapy

Claudia Gravekamp, Ph.D.
Cancer Therapy and Research Center
A Synergistic Mouse Tumor Model to Develop Cancer Vaccines for the Elderly

Qing Guo, Ph.D.
Northeastern Ohio Universities School of Medicine
Inhibiting Aberrant Processing of Alzheimer’s 8-Amyloid Precursor Protein by Blocking Par-4 Activity: Novel Therapeutic Implications in the Treatment of Alzheimer’s Disease

Paul S. Hees, Ph.D.
Johns Hopkins Bayview Medical Center
Reversal of Age-related Myocardial Stiffness in Rats

Shurong Huang, Ph.D.
Palo Alto Institute of Molecular Medicine
Regulation of Replicative Senescence by the WRN Gene

Jennifer L. Luebke, Ph.D.
Boston University School of Medicine
Functional Consequences of Cholinergic Degeneration in Aged Rhesus Monkeys

Allen Mandir, M.D., Ph.D.
Johns Hopkins University
Aging & Parkinson’s Disease: MPTP Models of Neurotoxicity

Michael J. McCaichern, Ph.D.
University of Georgia
Genomic Screen for Telomere Mutants

Timothy P. O’Connor, Ph.D.
City College of the City University of New York
Aging of Gut Function and Metabolism in a Long-lived Rodent, the Naked-Mole Rat

Riccardo Perfetti, M.D., Ph.D.
Cedars-Sinai Medical Center
Age-dependent Decline of Pancreatic Islet Cell Function is Reversed by Hormonal Treatment

Suzana Petanceska, Ph.D.
Nathan Kline Institute
Modeling the Role of Microglia in αB Deposition: Effect of Estrogen

David A. Sinclair, Ph.D.
Harvard Medical School
A Molecular Role for Werner and Sgs1 Helicases in Telomere Maintenance and Premature Aging

Nina J. Solenski, M.D.
University of Virginia Health System
The Role of Mitocondria in Hypoxia-induced Cell Death

Aziz M. Ulug, Ph.D.
Weill Medical College of Cornell University
The Diagnosis and Management of Normal Pressure Hydrocephalus in the Elderly Using MRDTI

Demetri Vassilatis, Ph.D.
Baylor College of Medicine
Cannabidiol is an Efficacious agent as a Model for Parkinson’s Disease

Robert West, Ph.D.
University of Notre Dame
The Neural Foundation of Age-related Declines in Prospective Memory

Asma Zaidi, Ph.D.
University of Kansas
Age-related Alterations in the Plasma Membrane Ca2+ ATPase: Role of Oxidative Stress and Ceramide Signaling

1999 Grantees

Ayotunde S.O. Adeagbo, Ph.D.
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The Aging Factor in Potassium Cycling and Blood Vessel Relaxation

Nancy J.O. Birkmeyer, Ph.D.
Dartmouth University
A National Study of Aortic Valve Replacement in the Elderly

William J. Bowers, Ph.D.
University of Rochester School of Medicine & Dentistry
Improved HSV Amplicon Vectors for Long-term Treatment of Parkinson’s Disease

Holly M. Brown-Borg, Ph.D.
University of North Dakota
Anti-oxidative Mechanisms and Damage Resistance in a Mouse Model of Delayed Aging

Michelle C. Carlson, Ph.D.
Johns Hopkins University
Regular Mental Activity and Cognitive Function in Older Adults

Monique M. Cherrier, Ph.D.
University of Washington
Androgen Effects on Cognition in Healthy Older Men

Jeff C. Falcone, Ph.D.
University of Louisville
Vascular Myogenic Responses and Aging: Orthostatic Hypotension or Hypertension?

Deborah A. Ferrington, Ph.D.
University of Minnesota
The Role of the Proteasome Proteolytic Pathway in Muscle Plasticity with Aging

Lee Goodplick, Ph.D.
University of California, Los Angeles
Identification of an Antigen Associated with the Pathogenesis of Giant Cell Arteritis

Jean X. Jiang, Ph.D.
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Estrogen and Intercellular Communication in Bone Osteocytes
1998 Grantees

Stacey M. Anderson, M.D.
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Altered Regulation of Human Growth Hormone Secretion in Postmenopausal Estrogen Deficiency

Katrin Andreasson, M.D.
Johns Hopkins University School of Medicine
Function of Cyclotransgogenases in Neuronal Injury

Ben A. Bahr, Ph.D.
University of Connecticut School of Pharmacy
Influences of Aging Processes on Glutamate Receptor Modification and Regulation in a Model System

Partha P. Banerjee, Ph.D.
Johns Hopkins University School of Hygiene & Public Health
Roles of Androgen and Estrogen in Age-dependent Development of Prostatic Intraepithelial Neoplasia and Prostate Cancer in Brown Norway Rat

Alexandra L. Basolo, Ph.D.
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Pleiotropic Effects of a Gene Determining Age and Size at Sexual Maturation

Maria L. Burgess, Ph.D.
University of Illinois
Interprem Expression and Second Signalizing in the Adaptation of Cardiac Fibroblasts to Advancing Age

Noel Y. Calingasam, D.V.M., Ph.D.
Burke Medical Research Institute
A Test of How Aging Alters the Interaction between Oxidative Stress and Nutritional Deficit

Susana T.L. Chung, Ph.D.
Indiana University
Optimizing Peripheral Reading Speed in Older Americans with Age-related Maculopathy

Nicola S. Clayton, Ph.D.
University of California, Davis
The Role of Brain Estrogens in Age-induced Memory Loss: A New Animal Model

Igor M. Dozsmorov, Ph.D.
University of Michigan
Antagonistic Interactions Among T-cell Subsets and Age-associated Immunodeficiency

Narayanasamy Elango, Ph.D.
University of Texas Health Science Center at San Antonio
Differentiation of Bone Marrow Osteoblast Progenitor Cells: Analysis of Genetic Determinants of Age-related Bone Loss

Andrea C. Gore, Ph.D.
Mount Sinai School of Medicine
Neuroendocrine Control of Reproductive Aging

Lynn Harrison, Ph.D.
Louisiana State University Medical Center
Investigation into the Role of Nuclear and Mitochondrial DNA Damage in Cellular Senescence

Kristine Krajnak, Ph.D.
University of Kentucky
Effects of Aging and Estrogen on SHT Neural Activity and its Regulation of Activity/Rest Rhythms

Valter D. Longo, Ph.D.
University of Southern California
Identification of Chronological Longevity Assurance Genes in Yeast

Lisa M. Miller, Ph.D.
Albert Einstein Center for Synchrotron Biosciences
Understanding the Chemical Composition of Osteoarthritic Bone

Thomas J. Montine, M.D., Ph.D.
Vanderbilt University
Lipid Peroxidation and APOE in Alzheimer's Disease

Susumu Mori, Ph.D.
Johns Hopkins University
Brain Fiber Tracking in Alzheimer's Disease by Magnetic Resonance Imaging

Shin Murakami, Ph.D.
University of Colorado, Boulder
Molecular Mechanisms for Regulation of Lifespan and Increased Resistance to Environmental Stresses in C. elegans

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University of Alabama at Birmingham
Statins for Enhancing Learning and Memory in Normal Aging

AFAR-Upstate New York
Heinrich Jasper, Ph.D.
University of Rochester Medical Center
Regulatory Interactions between JNK and Insulin Signaling in the Control of Lifespan

AFAR/Glenn Breakthroughs in Gerontology (BIG) Award

Two-year awards to provide timely support to pilot research programs that may be of relatively high risk but offer significant promise of yielding transforming discoveries in the fundamental biology of aging. This program, sponsored by the Glenn Foundation for Medical Research, began in 2005.

AFAR/Pfizer Innovations in Aging Research Award

Two-year awards for promising junior faculty scientists who wish to start highly innovative projects focused on the basic biology of aging and its relationship to human disease. Sponsored by Pfizer Inc. This program was active from 2004 to 2005.

AFAR-Ohio
Erik D. Andrulis, Ph.D.
Case Western Reserve University
Mechanisms of mRNA Turnover during Aging

AFAR-Upstate New York
Vera Gorbunova, Ph.D.
University of Rochester
Changes in the Levels of DNA Double-strand Break Repair Proteins during Aging and Cellular Senescence

2005 Recipients

Katrin Andreasson, M.D.
Johns Hopkins University School of Medicine
Function of the PGE2EP Receptors in the Development of Alzheimer’s Disease

Steven Artandi, M.D., Ph.D.
Stanford University
Activation of Epidermal Stem Cells by Telomerase

Anne Brunet, Ph.D.
Stanford University
Role of FOXO Transcription Factors in Mammalian Longevity

Fen-Biao Gao, Ph.D.
J. David Gladstone Institutes at the University of California, San Francisco
Identification of Genetic Pathways That Reduce α6 Toxicity on Neuronal Structures
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. Fridelli, 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

Zhiming Suo, M.D.
Midwest Biomedical Research Foundation
ß-lymphocytes

Function in Different Tissues

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

2001 Hormones and Aging

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

Naibeda Chattopadhyay, Ph.D.
Brigham & Women’s Hospital
Anabolic Actions of Ca2+-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

2000 Age-related Neurodegenerative Diseases

Azad Bonni, M.D., Ph.D.
Harvard Medical School
Neurotrophin Regulation of Amyloid ß-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

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. Bouzani, 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. Carlson, 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

Wendy L. Gozansky, M.D., M.P.H.
Memorial Sloan-Kettering Cancer Center
Centenarian Offspring and Vascular Disease Outcomes?

Pearl H. Seo, M.D., M.P.H.
Duke University Medical Center
PPARgamma: 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
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 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

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 Unützer, M.D., M.P.H.
University of California, Los Angeles
Neuropsychiatric Institute
Improving Care for Chronic Pain and Late Life Depression

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

2002 Scholars

Asa Abelliovich, M.D., Ph.D.
Columbia University College of Physicians & Surgeons
Molecular Analysis of the Familial Parkinson Disease Genes Parkin and Alpha-synuclein

Katrín 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 E. Masrianni, 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

2001 Scholars

Asa Abelliovich, M.D., Ph.D.
Columbia University College of Physicians & Surgeons
Molecular Analysis of the Familial Parkinson Disease Genes Parkin and Alpha-synuclein

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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

2000 Scholars

Brock Beamer, M.D.
Johns Hopkins University School of Medicine
Genetic Variation in PPAR-γ and RXRα: 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 Hamed, 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 Adaptations

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. Kuttner, 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 in Older Persons

Scott A. Small, M.D.
Columbia University College of Physicians & Surgeons
Functional Imaging of the Hippocampal Formation in Age-related Memory Decline

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
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., Ph.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
Clinical Spectrum, Treatment and Outcome of Elderly Congestive Heart Failure Patients

Harlan M. Krumholz, M.D.
Yale University 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.
University of California, San Diego School of Medicine
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

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

Ted M. Dawson, M.D., Ph.D.
Johns Hopkins University School of Medicine
Gene Therapy for Neurologic Disorders

David M. Holtzman, M.D., Ph.D.
Johns Hopkins University School of Medicine
The Morbidity and Mortality of Elder Abuse

Mark S. Lachs, M.D., M.P.H.
Weill Medical College of Cornell University
The Mortality and Mortality of Elder Abuse

Frank M. Longo, M.D., Ph.D.
University of California, San Francisco School of Medicine
Screening for Harmful and Hazardous Drinking in Older Persons

Edward H. Koo, M.D.
University of California, San Diego School of Medicine
The Mechanism of Amyloid β-protein (Aβ) Production from the Amyloid Precursor Protein (APP) in Neurons

Mark S. Lachs, M.D., M.P.H.
Weill Medical College of Cornell University
The Mortality and Mortality of Elder Abuse

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.
University of California, San Diego School of Medicine
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
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. Rielse, 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
- Adalstein 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. Brodkin, 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

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

- Sarah Sagl, Ph.D.
  University of California, San Diego
  NS4A/D 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 Lifespan Genes

- Marc F. Poitras, Ph.D.
  New York University School of Medicine
  Molecular Mechanisms of Tankurase1-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. Kililiea, 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 Podlutsky, 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

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. McHazellet
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 Post-interventions in Elderly Individuals

Paul McConnell
West Virginia University School of Medicine
Characterization of the IDE-mediated Degradation of αB in Plasma Membranes and in Intracellular Vesicular Compartments of Cells

Angela A. Baccala
Johns Hopkins University
In Vitro RU-486 Gene Switch Regulation of iNOS for the Treatment of Erectile Dysfunction in Men Taking Nitrates and Drugs 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 Chyung
Harvard Medical School
Characterization of the IDE-mediated Degradation of αB in Plasma Membranes

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. Klotz
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

Debutta Bandyopadhyay, Ph.D.
Baylor College of Medicine
Role of Histone Deacetylation in Melanocyes 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 Gunnung-Dixon, Ph.D.
Hospital of the University of Pennsylvania
The Neural Basis of Age-related Declines in Episodic Memory

Kimmo J. Hatamapa, 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

2000 Scholars

Hormone Replacement Therapy: Investigating Language Barriers

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

2001 Scholars

Hormone Replacement Therapy: Investigating Language Barriers

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University of North Texas Health Science Center
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Reza Kafi
University of Michigan Medical Center
Topical Vitamin A (All-trans Retinol) in the Treatment of Aged Skin
2000 Scholars

Jeffrey R. Bishop
University of Iowa
Neuronal Susceptibility to Environmental Stressors in Parkinson’s Disease: The Role of α-Synuclein.

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

Yvonne C. Huckleberry
Washington State University

Sillard 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
Merck University
A Retrospective Study of Adverse Drug Reactions Following the Administration of the Influenza, Pneumonia and/or Tetanus-diptheria 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
B-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

Ron Devlin
University of Colorado Health Sciences Center

Marc Levsky
Northwestern University
SSRI-induced Hypotension 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
Apollipoprotein 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 Cord From Disulfiram-Treated G6R 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-β by a Protein-coupled Receptor Kinase-2.

Jennifer A. Greenhall
University of California, San Diego
The Impact of Igf1 and Igf2 on the Preservation of Cortical Neurons in the Aging Mouse.

Shilpa Iyer
University of Georgia
Kistn-MT: a Novel Yeast Model System to Study Telomere Capping Defects and Recombunotional 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 Cardiomyocyte Apoptosis In Vivo.

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

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
SNAP 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 Oxytocin 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 Progestosterone-dependent Mechanism to Delay Reproductive Aging

Robert T. Turner III
Oklahoma University
Substrate Specificity of B-Secretase: Towards Design of Inhibitor Drugs

Baiping Wang
University of Washington
In Vivo Analysis of the Role of F685 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
Allegeny 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. Dineno
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 Glaucousom Visual Field Loss with Neural Networks

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 Kensing
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 Novay 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 Nutrophoric Factors

Daniel W. Mudrick
Johns Hopkins University
Effects of Age on NOS2 Induction and Response to 8-Adrenergic Stimulation in LPS and y-INF Exposed Rat Hearts

Anaelys 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

Hailong Song
University of Maryland, Baltimore
Altered Responses of Aged 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 E. Chang
Washington University School of Medicine
Isomorph-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
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<td>Dena Dubal</td>
<td>University of Kentucky</td>
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<td>Neuroprotective Effects of Estrogen in Aging</td>
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<td>Melissa Gill</td>
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<td>Effect of D1 Receptor Modulation on Memory in Aged Mice</td>
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<td>Gerald J. Gracia</td>
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<td>Allen Harrison</td>
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<td>Aging and the Ubiquitination of the CD3-zeta Chain</td>
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<td>John M. Hollander</td>
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<td>Aging and Antioxidant Enzyme Gene Regulation: Superoxide Dismutase Brought to Focus</td>
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<td>Elizabeth T. Hsiao-Weckler</td>
<td>University of California, Berkeley</td>
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<td>Influence of Lower Extremity Joint Torques on Balance Recovery by Stepping</td>
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<td>Lyndon Joseph</td>
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<td>Weight Loss, Exercise, and Age: Effects on Insulin Action</td>
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<td>Vivek Kaliraman</td>
<td>University of Medicine and Dentistry of New Jersey</td>
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<td>Role of the SLX Proteins in rDNA Stability and Aging in Yeast</td>
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<td>Richard Kwun</td>
<td>New York Medical College</td>
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<td>The Use of Pulse Wave Velocity to Measure Age-related Arterial Stiffening in the Mouse</td>
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<td>Peter H.U. Lee</td>
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<td>Tissue-engineered BioArtificial Muscles Transduced with the IGF-1 Gene Can Promote Motoneuron Sprouting and Muscle Fiber Inervation In Vitro</td>
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<td>Malcolm A. Leissring</td>
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<td>Effects of Presenilin-1 on Calcium Signaling</td>
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<td>Oren Levy</td>
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<td>Effects of FAO-Linked Presenilin-1 Mutations on Notch Signaling</td>
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<td>Marisol E. Lopez</td>
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<td>Characterization of Age-associated Electron Transport System Abnormalities and Associated Fiber Atrophy in Rhesus Monkey Skeletal Muscle</td>
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<td>Kevin M. Owen</td>
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<td>The Kinetics of B-Lymphocyte Production in Aged Animals</td>
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<td>Marc D. Paradis</td>
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<td>Presenilins 1 and 2: Effects of Pharmacologic Stimulation of Neurotransmitter Receptors Coupled to Phospholipase C, Phospholipase A2, or Adenyl Cyclase Activity on their Cleavage, Transcription and Translation</td>
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<td>Echo V. Rowe</td>
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<td>Complementation of 4NQO Sensitivity in Sps1 Mutant Strains of S. cerevisiae by the Human Werner Syndrome Protein</td>
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<td>Aileen Wiglesworth</td>
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<td>Quantitative Assessment of Synaptic Density in Superior Parietal Lobule in Alzheimer’s Disease</td>
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<td>Nael Al-Abdulla</td>
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<td>Randall Bateman</td>
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<td>Human Mesenchymal Stem Cell Interaction with Endothelial Cells During In Vitro Angiogenesis</td>
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<td>Tammie Benzinger</td>
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<td>Mark Borden</td>
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<td>Age-related Effects of Fracture Non-union Treatment Using a Novel Synthetic Bone Replacement</td>
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<td>Jeff Coombes</td>
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<td>Kimberley Eks</td>
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<td>Sara Evans</td>
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<td>Barry Hoopengardner</td>
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<td>Identification of a Temporally-responsive Region in the Genome of Drosophila melanogaster</td>
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<td>Scott Jenkins</td>
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<td>James Lee</td>
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<td>In Vivo Target Specific Delivery of Liposome-encapsulated Doxorubicin into Mouse Tumor Model Using Magnetic Resonance Guided Focused Ultrasound</td>
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<td>Paul Mack</td>
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<td>Theories of Aging: A Test for the Existence of Age-specific Mutations</td>
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<td>Jocelyn Pececi</td>
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<td>Mark Snow</td>
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<td>What is the Actual Relationship Between daf-12 and daf-2 in Caenorhabditis elegans Adult Longevity?</td>
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<td>Maria Tesini</td>
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<td>Alex Dranovsky</td>
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<td>Age-sensitive T-cell Subsets Marked by P-glycoprotein: Specific Responses to a Clonally Restricted Protein Antigen (Pigeon Cytochrome C)</td>
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<td>Does Overexpression of HSFI in Human Diploid Fibroblasts Correct for the Age-related Decline in the Induction of Heat Shock Protein 70 Expression?</td>
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<td>Nathan Hall</td>
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<td>Edema Reduction and White Matter Protection Following Treatment with a Phenylthiozone Spine Trap in Experimental ICH</td>
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<td>Edward Huey</td>
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<td>The Intracellular Effects of Stress Hormones on Neurons</td>
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<td>Peter Kennedy</td>
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<td>Mechanisms of Age-dependent Loss of DNA Repair Capacity in Human Brain</td>
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<td>Steven Kleopoulou</td>
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<td>Manipulation of Hypothalamic Neuropeptide Y Gene Expression During Aging</td>
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<td>Shi Li</td>
<td>University of California, San Diego</td>
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<td>Glutamate Transporters and Synaptic Pathology in Alzheimer’s Disease</td>
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<td>David Lieberman</td>
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<td>Second Messenger Actions of Beta-amyloid Peptides</td>
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</table>
Srirakshmi Maguluri  
University of Medicine and Dentistry of New Jersey  
The Effect of Aging on Rhythmicity

Marta Margetea  
University of Illinois  
G-proteins Involved in the Calcium Current Inhibition Induced by Substance P and Neureotensin

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 Adenosviruses with Bisctronic 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 Abuja  
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 Y 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 She 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 Neurotransphins 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  
Myocin Heavy Chain Altercations 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

Michael Thott  
University of Maryland at Baltimore  
Energy Metabolism in Congestive Heart Failure Patients

1994 Scholars

Rupinder Bal  
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 SDF-3 Gene

Van Khang Huyen  
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 School of Biological 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 B 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.  
Well 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

Cari R. Levy, M.D.  
University of Colorado Health Sciences Center  
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.  
Bowman Gray School of Medicine at Wake Forest University  
Effects on Aging on IGF-signal Transduction

Cari R. Levy, M.D.  
University of Colorado Health Sciences Center  
Determining Adherence to a Pain Management Model in the Nursing Home Setting

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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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Mount Sinai School of Medicine

Olatubosun Chinwokwu
Saint Louis University

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Johns Hopkins School of Medicine

Ohm Deshpande
Cornell University

Sharon Engel
Emory University

David Fish
University of New England College of Medicine

Andrew Fisher
University of Pittsburgh School of Medicine

Michael Ford
Cornell University

Daniel Freedberg
Harvard Medical School

Molly Fuentes
University of Michigan Medical School

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

Shanti Ganesh
Duke University School of Medicine

Matthew Garrett
Case Western Reserve University

Benjamin Goldsmith
Mount Sinai School of Medicine

Elizabeth Goodman
Washington University School of Medicine

Jacqueline Green
Emory University

Joy Guerrieri-Bang
University of New England College of Medicine

Nitin Gupta
University of Michigan

Elizabeth Harlow
Emory University

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John Hopkins
University of North Carolina at Chapel Hill

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Brian Houston
Emory University

Kathleen Khong
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Laura Raducha-Grace
University of Pittsburgh

Simha Raven
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Lon Steinberg
Albert Einstein College of Medicine

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Christie Tung
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Brent Ullery
Cornell University

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University of Michigan

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Victor Wu
Emory University

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

Jacqueline Yuen
University of Michigan Medical School

Andrea Zapada
University of Michigan

David Zinn
Brown University

2004 Scholars

Yachna Ahuja
Case Western Reserve University

Hannah H. Alphs
Johns Hopkins University

Kathryn A. Artis
Mount Sinai School of Medicine

Donald M. Banik
University of New England College of Medicine

Aisha Baqai
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Yasmin Bootwala
Baylor College of Medicine

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Drew University/University of California, Los Angeles

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University of Michigan

Anne E. Finefrock
University of North Carolina at Chapel Hill

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Mount Sinai School of Medicine

Matthew Hansen
Case Western Reserve University

Maryam Haque
Drexel University College of Medicine

Lianne Hirano
Yale University

Joey Y. Kohatsu
University of Hawaii

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University of California, San Diego

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Jeffrey Loh
Cornell University

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Oklahoma State University

Kristin K. Martin
Oklahoma State University

Loren L. Martinez
Ohio State University College of Medicine and Public Health

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Case Western Reserve University

Meredith J. Montero
University of Michigan

Leah Y.K. Nakamura
University of Hawaii

Claude Nguyen
Medical College of Wisconsin

Barbara C. Overend
Emory University
<table>
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<tr>
<th>Name</th>
<th>University</th>
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<tr>
<td>Hasra K. Phillip</td>
<td>State University of New York, Upstate Medical University</td>
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<td>Lhasa Ray</td>
<td>Albert Einstein College of Medicine</td>
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<td>University of Hawaii</td>
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<td>Beata Zubrowski</td>
<td>Philadelphia College of Osteopathic Medicine</td>
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### 2002 Scholars

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<tr>
<td>Stephanie J. Anderson</td>
<td>Saint Louis University</td>
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<tr>
<td>Srilatha Atluri</td>
<td>Indiana University School of Medicine</td>
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<tr>
<td>Isabel Balderas</td>
<td>Harvard University</td>
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<td>Amy Baxi</td>
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<tr>
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<tbody>
<tr>
<td>Crystal L. Adams</td>
<td>University of Texas Health Science Center at San Antonio</td>
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<td>April Alford</td>
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<td>Beth H. Justice</td>
<td>Emory University</td>
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<tr>
<td>Christin Knowlton</td>
<td>State University of New York, Stony Brook</td>
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<tr>
<td>Thomas A. Leeson</td>
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</tr>
<tr>
<td>Serena Lo</td>
<td>University of Hawaii</td>
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### 2002 Scholars

<table>
<thead>
<tr>
<th>Name</th>
<th>University</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stephanie J. Anderson</td>
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<tr>
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<td>Indiana University School of Medicine</td>
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<tr>
<td>Isabel Balderas</td>
<td>Harvard University</td>
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<td>Amy Baxi</td>
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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  
Mount Sinai School of Medicine

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

Alayna Kulvicki Markland  
University of North Texas

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 Broadmax  
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 McLooney  
Ohio State University College of Medicine & Public Health

Leland Metheny  
Case Western Reserve University

Jeanie Wang  
Northwestern Ohio Universities

Aimee Wing  
Case Western Reserve University
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.

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

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/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
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

2000 Recipient
Jack T. Rogers, Ph.D.
Harvard Medical School
A New Translation Regulatory Target in the Alzheimer’s APP Transcript

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

2000 Recipient
Jack T. Rogers, Ph.D.
Harvard Medical School
A New Translation Regulatory Target in the Alzheimer’s APP Transcript
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
</tr>
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<tbody>
<tr>
<td>1981</td>
<td>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.</td>
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<tr>
<td>1982</td>
<td>The first AFAR Research Grants are awarded.</td>
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<td></td>
<td>First Irving S. Wright Award given to Nathan W. Shock, Ph.D.</td>
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<td>1984</td>
<td>First AFAR state affiliate formed in Ohio.</td>
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<td>1986</td>
<td>Charles A. Dana AFAR Traveling Scholars Program established to encourage interest in geriatric medicine among future physicians.</td>
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<tr>
<td>1987</td>
<td>George E. Doty is elected Chair of the Board of Directors.</td>
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<td></td>
<td>The Merck Company Foundation sponsors new fellowships in geriatric clinical pharmacology.</td>
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<tr>
<td>1988</td>
<td>AFAR holds first grantee conference, bringing scientists together to share information, discuss research and create opportunities for future cooperation.</td>
</tr>
<tr>
<td>1991</td>
<td>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.</td>
</tr>
<tr>
<td>1993</td>
<td>Hadley Ford is elected Chair of the Board of Directors.</td>
</tr>
<tr>
<td>1994</td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>AFAR and The John A. Hartford Foundation collaborate to start the Hartford/AFAR Medical Student Geriatric Scholars Program.</td>
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<tr>
<td></td>
<td>The Glenn Foundation for Medical Research funds new Glenn/AFAR Student Scholarship Program for Research in the Biology of Aging.</td>
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<tr>
<td></td>
<td>Annual AFAR Research Grants top $1 million.</td>
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<td></td>
<td>AFAR launches Dorothy Dillon Eweson Lecture Series to educate medical specialists on advances in aging research within their own fields.</td>
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<td></td>
<td>Diane Nixon names grant in memory of her mother, Nan Allen Nixon.</td>
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<td></td>
<td>The John A. Hartford Foundation funds AFAR to establish a Coordinating Center for the Hartford Foundation’s Centers of Excellence Initiative.</td>
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<tr>
<td></td>
<td>AFAR launches Lifelong, a newsletter for older patients published in Geriatrics magazine.</td>
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<tr>
<td></td>
<td>The Merck Company Foundation and AFAR create the Merck/AFAR Research Scholarships in Geriatric Pharmacology.</td>
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<td>First “Friends of AFAR” dinner is held in New York City.</td>
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<td></td>
<td>AFAR goes global with the first International Conference on Biomedical Aspects of Aging Research held in Venice, Italy.</td>
</tr>
<tr>
<td></td>
<td>Sponsors of the Paul Beeson Physician Faculty Scholars in Aging Program commit additional $14 million to fund 31 new Scholars.</td>
</tr>
<tr>
<td>1998</td>
<td>The John A. Hartford Foundation and AFAR create the Academic Fellowship Program in Geriatric Medicine and Geriatric Psychiatry.</td>
</tr>
<tr>
<td>1999</td>
<td>Pfizer Inc joins with AFAR to create the Pfizer/AFAR Research Grant Program.</td>
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<tr>
<td></td>
<td>The Fan Fox and Leslie R. Samuels Foundation adds support for local medical students through the AFAR/Samuels Foundation Medical Student Geriatric Scholars Program.</td>
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<td></td>
<td>AFAR launches Infoaging.org, a consumer information website.</td>
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<td></td>
<td>The Starr Foundation joins the team of Beeson Program sponsors.</td>
</tr>
<tr>
<td>2001</td>
<td>AFAR and the Glenn Foundation for Medical Research create awards program for post-doctoral fellows.</td>
</tr>
<tr>
<td></td>
<td>Foundation for Fighting Blindness and AFAR establish a joint program for career development awards in support of research on age-related macular degeneration.</td>
</tr>
</tbody>
</table>
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.
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.

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