25 YEARS OF AGING RESEARCH

American Federation for Aging Research

AFAR Grant Recipients — 1981-2005

Celebrating A Quarter Century of Research

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

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

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

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Letter from the Executive Director
25th Anniversary Grantee Directory

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

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

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

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

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

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

Stephanie Lederman

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

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DANIEL E. WOLLMAN, M.D., Ph.D.
Center for Comprehensive Care
Shelton, Connecticut

PHILIP C. WONG, Ph.D.
The Johns Hopkins University School of Medicine
Baltimore, Maryland

DIANA WOODRUFF-PAK, Ph.D.
Temple University/Albert Einstein Medical Center
Philadelphia, Pennsylvania

WEIMING XIA, Ph.D.
Harvard Institute of Medicine
Boston, Massachusetts

DEAN T. YAMAGUCHI, M.D., Ph.D.
VA Greater Los Angeles Healthcare System
Los Angeles, California

RIQIANG YAN, Ph.D.
The Cleveland Clinic Foundation
Cleveland, Ohio

RAYMOND YUNG, M.D.
University of Michigan
Ann Arbor, Michigan

MARCO ZARBIN, M.D., Ph.D.
New Jersey Medical School
Newark, New Jersey

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2005 Grantees

Rajendra S. Apte, M.D., Ph.D.
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
ß-Amyloid Precurson 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 ß-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

Wolfgang B. Liedtke, M.D., Ph.D.
Duke University Medical Center
Molecular Pathogenesis of Osmotic Dysregulation by the Nervous System in Aging Mammals

Jianyuan Luo, Ph.D.
University of Massachusetts Medical School
Negative Regulation of p53 Pathway by Mammalian Sir2 Antagonize p53 Dependent Cell Senescence Induced by Oxidative Stress

Barbara McCreadie, Ph.D.
University of Michigan
Age-related Response to Trabecular Bone Microdamage

M. Paul Murphy, Ph.D.
Mayo Clinic College of Medicine, Jacksonville
Regulation of ß-Secretase by CNBP

Radhika H. Muzumdar, M.D.
Albert Einstein College of Medicine
Role of Declining IGF-1 in the Metabolic Syndrome of Aging

Peter Penzes, Ph.D.
Northwestern University
Regulation of Structural Plasticity of Excitatory Synapses

Pere Puigserver, Ph.D.
Johns Hopkins University School of Medicine
Molecular Mechanisms for Transcriptional Regulation of Glucose Homeostatis Linked to Aging

Patrick M. Sullivan, Ph.D.
Duke University Medical Center
Effective Aging on Brain ApoE-dependent, Lipid Metabolism

Kaoru Tominaga, Ph.D.
University of Texas Health Science Center at San Antonio
Analysis of MORF4 Functions In Vitro and In Vivo Model Systems

Zoltan Ungvari, M.D., Ph.D.
New York Medical College
Cardiovascular Protective Effects of Anti-TNFa/TACE Treatment in Aging

David N. Zacks, M.D., Ph.D.
University of Michigan Kellogg Eye Center
Apoptosis in Photoreceptor Cell Death

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 Maric, 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 PEN-2 in the ß-Secretase Complex

2002 Grantees

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

Francesco S. Celi, 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

Yi-Ju Li, Ph.D.
Duke University Medical Center
Identification of Novel Age-at-Onset Genes on Chromosome 10 in Alzheimer's Disease

Philippe Marambaud, Ph.D.
Mount Sinai School of Medicine
Role of the Presenilin-1/ß-secretase Cleavage of E-Cadherin in Adherens Junction Functions

David J. Moser, Ph.D.
University of Iowa Carver College of Medicine
Effects of Endothelial Dysfunction Cerebrovascular Disease, Cognition and Depression

Susan R. Opalenik, Ph.D.
Vanderbilt University
Stem Cells in Age-impaired Wound Healing

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 Synaptopodin 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*

Heidi A. Tissenbaum, Ph.D.
University of Massachusetts Medical School
Genetic and Molecular Analysis of Mechanisms Controlling Life Span in C. elegans

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 MDM2

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 F. 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

Claudia A. Orengo, M.D., Ph.D.
Baylor College of Medicine
Testosterone Augmentation in Depressed Men with Partial Response to Anti-depressant Therapy

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. Slattum, 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.S., 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 Calcineurin 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 Oligonucletide Therapy

Claudia Gravekamp, Ph.D.
Cancer Therapy and Research Center
A Syngeneic 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 ß-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 I. 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. McEachern, 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 αß 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 Mitochondria 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
Caenorhabditis elegans *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.
University of Louisville
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 Goodglick, Ph.D.
University of California, Los Angeles
Identification of an Antigen Associated with the Pathogenesis of Giant Cell Arteritis

Jean X. Jiang, Ph.D.
University of Texas Health Sciences Center at San Antonio
Estrogen and Intercellular Communication in Bone Osteocytes

Ming-Tao Jiang, Ph.D.
University of Wisconsin-Madison
Properties of Calcium Release Channels and Their Regulation by ß-adrenergic Stimulation in the Aged Rat Heart

Nori Kasahara, M.D., Ph.D.
University of Southern California
Investigating the Role of Klotho as a Humoral Factor Implicated in Age-related Disease Pathogenesis

Cathy Kotz, Ph.D.
University of Minnesota
Effect of Age on Orexin-containing Neural Pathways

John Larson, Ph.D.
University of Illinois at Chicago
Neurobiology of Aging in the Mouse Olfactory System

Carl W. Luchies, Ph.D.
University of Kansas
Age Effects on Postural Control Mechanisms: The Upper Extremities

Mathew Maurer, M.D.
Columbia University
Orthostatic Hypotension and Falls in Nursing Home Residents: Is Diastolic Blood Pressure Changes More Predictive than Changes in Systolic Blood Pressure?

Craig Neville, Ph.D.
Massachusetts General Hospital
Mitigation of the Effects of Sarcopenia

David C. Paik, M.D.
Columbia University
The Non-enzymatic Nitration of Collagen in Human Vascular Aging

Emily D. Richardson, Ph.D.
University of Colorado, Boulder
Visual Attention Training for At-risk Older Drivers: A Pilot Intervention

Bart Rypma, Ph.D.
University of Pennsylvania
Neural Correlates of Age-related Differences in Working Memory

Stuart N. Seidman, M.D.
Columbia University
Testosterone and Depression in Men

Caryl E. Sortwell, Ph.D.
Rush-Presbyterian-St. Luke's Medical Center
Trophic Inhibition of Apoptosis in Mesencephalic Grafts to Aged Rats

Michael J. Toth, Ph.D.
University of Vermont
Skeletal Muscle Protein Metabolism in Heart Failure Patients

Scott D. Webster, Ph.D.
University of California, Irvine
Amyloid Phagocytosis in Microglial: Contributions to Alzheimer's Pathogenesis

1998 Grantees

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

Katrin Andreasson, M.D.
Johns Hopkins University School of Medicine
Function of Cyclooxygenases 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.
University of Nebraska-Lincoln
Pleiotropic Effects of a Gene Determining Age and Size at Sexual Maturation

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

Noel Y. Calingasan, 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. Dozmorov, 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 5HT 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

Patrick C. May, Ph.D.
Eli Lilly & CO.
Differential Gene Expression in Neurons Selectively Vulnerable to Aging

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

Daniel A. Peterson, Ph.D.
Salk Institute for Biological Studies *Prevention of Neuronal Cell Death in the Entorhinal Cortex*

Blanka Rogina, Ph.D.
University of Connecticut Health Center
Cloning Two Genes with Different Regulation of Expression during Aging

Edward M. Schwarz, Ph.D.
University of Rochester
Gene Therapy for Arthritis in the hTNF ß-Transgenic Mouse

Mary Seeger, Ph.D.
Rockefeller University
ß-Secretase Cleavage of Alzheimer Amyloid Precursor Protein in Yeast

Christian Sell, Ph.D.
Allegheny University of the Health Sciences
The Role of Phosphatidylinositol 3-kinase in Cellular Senescence

Jie Shen, Ph.D.
Harvard University
Functional Characterization of Presenilin-1 Wild-type and Mutant Alleles in Mice

Pamela E. Souza, Ph.D.
University of Washington
Use of New Hearing Aid Processing Strategies by Elderly Adults

Mary A. Whooley, M.D.
University of California, San Francisco
Estrogen Therapy and Depression in Elderly Women

1997 Grantees

Robert D. Blank, M.D., Ph.D.
The Hospital for Special Surgery
Genetics of Bone Mineral Content and Quality in Inbred Mice: Analysis of the HcB/Dem Recombinant Cogenic Strain Set

Cheong-Hee Chang, Ph.D.
University of Michigan
Regulation of IL-4 Production and its Role in Aging

Robert F. Clark, Ph.D.
Meharry Medical College
Characterization of the Drosophila *Presenilin Gene*

Lisa Tabor Connor, Ph.D.
Boston University School of Medicine
Modulators of Lexical Retrieval Failure in Old Age

Timothy E. Curran, Ph.D.
Case Western Reserve University
Event-related Potentials of Sensory Underload

Adriana Ferreira, M.D., Ph.D.
Northwestern University
Regulation of Neuronal Kinase Activity by ß-Amyloid

Roger A. Fielding, Ph.D.
Boston University
A Comparison of Progressive Resistance Training and High Velocity Muscle Power Training on Changes in Muscle Strength, Histology and Function in Frail Older Women

Mary Kay Francis, Ph.D.
Allegheny University of the Health Sciences
EPC-1 Expression and Aging: Effect on Proliferation

Katsutoshi Furukawa, M.D., Ph.D.
University of Kentucky
Functions of Presenilin Mutations in Ion Homeostasis of Neuronal Cells

Jeffrey M. Hausdorff, Ph.D., MSME
Beth Israel Deaconess Medical Center/Harvard Medical School
Fall Risk Assessment: A Prospective Study of the Relationship between Gait Instability and Falls in the Elderly

Chun Huang, Ph.D.
Hawaii Osteoporosis Foundation
The Impact of Osteoporotic Fractures on Physical Function and Quality of Life Among the Elderly

Michael Jakowec, Ph.D.
Parkinson's Institute
The Molecular Mechanisms Underlying Enhanced Sensitivity to MPTP in Old Squirrel Monkeys

Dean Kellogg, Jr., M.D., Ph.D.
University of Texas Health Science Center at San Antonio
Effects of Reproductive System Aging on Endothelial Mechanisms of Vasoconstriction and Vasodilation in Women

Daniel E. Lieberman, Ph.D.
Rutgers University
Effects of Age and Exercise on Cortical Bone Growth and Porosity

Ravindra P. Misra, Ph.D.
Medical College of Wisconsin
Molecular Mechanism of Cell Activation by Calcium-containing Crystals

Mariana N. Nikolova-Karakashian, Ph.D.
Emory University
Sphingolipid Metabolism and Signaling in Aged Male Rats: Relation to Inflammatory Response and Regulation of Cell Growth

Sergey V. Nuzhdin, Ph.D.
University of California, Davis
The Genetic Basis of Modification of Lifespan by an Individual's Life History in Drosophila melanogaster

Junko Oshima, M.D., Ph.D.
University of Washington
Consequences of Werner Helicase Gene Mutations on Expression of its mRNA and Protein

Joseph P. Pierce, Ph.D.
Cornell University Medical College
Neuroanatomical Alterations in Hippocampal Pathways Associated with Learning and Memory Deficits in Aged Rats

Domenico Pratico, M.D.
University of Pennsylvania
Isoprostanes, Oxidative Damage and Alzheimer's Disease

Tracy G. Ram, Ph.D.
Washington State University School of Biological Science
Paracrine Action of Heregulins in the Aged Mammary Gland

Cynthia Sites, M.D.
University of Vermont
Hormone Replacement Therapy and Metabolic Cardiovascular Risk

Nikolai Timchenko, Ph.D.
Baylor College of Medicine
Studies of the Molecular Basis for Loss of Regenerative Capacity with Age-effect of Aging on C/EBP Alpha Mediated Control of Liver Proliferation

Qi-hui Zhai, M.D., M.Sc.
Medical College of Ohio
Tumor Necrosis Factor in Cerebral Ischemia in Aged Rat

1996 Grantees

Namanjeet Ahluwalia, Ph.D.
Pennsylvania State University
Plasma Transferrin Receptors in the Elderly as a Biomarker for Iron Deficiency: Establishing Normative Range and Cut-off

Dora Monica Berman, Ph.D.
University of Maryland, Baltimore
Cellular Mechanisms Underlying Visceral Obesity in Postmenopausal Women: Effects of Weight Loss

Diane M. Biskobing, M.D.
Emory University
Prevention of Bone Resorption Through Inhibition of Osteoclast Activity

Abraham Brown, Ph.D.
Burke Medical Research Institute
Requirement for Membrane Association in the Processing of Alzheimer's Precursor Protein by ß-secretase

Mary Patricia Corr, M.D.
University of California, San Diego
CD1-mediated Regulation of T-cell Effector Function Using Gene Therapy

Rebecca L.W. Corwin, Ph.D.
Pennsylvania State University
Influence of Serotonin on Nutritional Status in Aging

Matthew P. Frosch, M.D., Ph.D.
Harvard Medical School
Transgenic Mouse Models for Early-Onset Alzheimer's Disease

Marc J. Glucksman, Ph.D.
Mount Sinai School of Medicine
Functional Analyses of ß-Secretase (EP2415) in Alzheimer's Disease

Patrick R. Hof, M.D., Ph.D.
Mount Sinai School of Medicine
Retinal Ganglion Cell Vulnerability in a Non-human Primate Model of Glaucoma

Karen Hubbard, Ph.D.
City College of City University of New York
Post-transcriptional Processing in Cellular Aging

Gursurinder P. Kaur, Ph.D.
Temple University School of Medicine
Genetics of Cell Senescence: Mapping of Cellular Senescence Genes on Human Chromosomes

Ichiro Kawachi, M.D., Ph.D.
Harvard University School of Public Health
Social Networks and Healthy Aging: A Prospective Study

Evan T. Keller, D.V.M., Ph.D.
East Virginia Medical School
Androgen's Effect on Interleukin-6 Expression in Bone Cell Lines: Developing a Molecular Model for Osteoporosis

Virginia B. Kraus, M.D., Ph.D.
Duke University Medical Center
Regulation of Metalloproteinases in Osteoarthritis

William T. Lee, Ph.D.
David Axelrod Institute
The Relationship between Memory T Lymphocytes and Aging

Xipu Liu, M.D., Ph.D.
Allegheny University of the Health Sciences
RPE-controlled Choriocapillary Endothelial Apoptosis: Relevance of Choriocapillary Atrophy in Age-related Macular Degeneration

Laura J. Mauro, Ph.D.
University of Minnesota Medical School
Parathyroid Hormone Regulation of a Bone Tyrosine Phosphatase

Daniel Promislow, Ph.D.
University of Georgia
The Effect of Retroviral-like Elements on Age-specific Mortality Rates

Jack T. Rogers, Ph.D.
Harvard Medical School
Amyloid Precursor Protein mRNA Translation by Interleukin-1 and Alzheimer's Disease

William A. Sather, Ph.D.
University of Colorado Health Sciences Center
Molecular Composition of Neuronal Calcium Channels during Aging

Biao Shi, Ph.D.
University of California, Davis
Altered PI/PKC Signaling Pathway in Aged Human Keratinocytes

Teresa Sobreviela, M.D., Ph.D.
Rush-Presbyterian-St. Luke's Medical Center
NGF Transport and trk Expression in Aged Rat Towards a Novel Therapy for Age-related Cognitive Decline

Hinrich Staecker, M.D., Ph.D.
Albert Einstein College of Medicine
Prevention of the Loss of Auditory Neurons in a Mouse Model of Presbycusis (C57B1) Strain by Neurotrophin-3 (NT-3 Administration to the Inner Ear via a Viral Vector [HSV Nt31ac])

Wenn H. Sun, Ph.D.
Northwestern University
Molecular Mechanisms of Age-associated Interleukin-6 Dysregulation in Post-menopausal Osteoporosis

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

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

Huaxi Xu, Ph.D.
Rockefeller University
Regulation of Alzheimer ß-Amyloid Metabolism by Signal Transduction

1995 Grantees

John M. Abrams, Ph.D.
University of Texas Southwestern Medical Center
Apoptosis and Aging in Drosophila

Michael E.T.I. Boerrigter, Ph.D.
Harvard Medical School
DNA Repair and Mutations in Relation to Aging in a New LacZ Plasmid-based Transgenic Mouse Model

Richard M. Cawthon, M.D., Ph.D.
University of Utah
Genetic Variation at Antioxidant Loci, Age Upon Diagnosis of First Tumor, and Human Longevity

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

Mark D'Esposito, M.D.
University of Pennsylvania
Working Memory in Normal Human Aging

Tekum Fonong, Ph.D.
University of Maryland, Baltimore
Low Levels of Energy Expenditure in Older African-American Women: A Predisposing Factor in the Development of Obesity?

Sally R. Frenkel, Ph.D.
New York University School of Medicine
The Effects of Nitric Oxide on Cartilage In Vitro and In Vivo: Implications for Arthritis

Luc E. Gosselin, Ph.D.
State University of New York at Buffalo
Age-associated Susceptibility to Muscle Injury: Relationship to Muscle Stiffness and Collagen Cross-linking

Shelley L. Halpain, Ph.D.
University of Virginia
Aging and Neural Plasticity: Regulation of Cytoskeletal Proteins

Stephen L. Helfand, M.D.
University of Connecticut Health Center
Control of Gene Expression during Aging

Jody L. Jensen, Ph.D.
University of Oregon
Biomechanical Correlates of Age-related Changes in the Neural Control of Balance

Richard S. Jones, Ph.D.
Southern Methodist University
Telomere Organization and Aging

Kathleen K. Kaysinger, Ph.D.
Carolinas Medical Center
Interactions of Aging and Estrogen on Osteoblast Function

Lei Li, Ph.D.
University of Texas M.D. Anderson Cancer Center
Analysis of Nucleotide Excision Repair Defect in Hutchinson-Gilford Progeria

R. Lee Mosley, Ph.D.
University of Michigan Medical Center
Frequency and Expansionary Potential of Post-thymic T Stem Cells from Aged Mice

Karen Diane Parfitt, Ph.D.
Pomona College
Changes with Aging in Cyclic AMP-dependent Synaptic Transmission and Synaptic Plasticity in Rat Hippocampus

Jharna Ray, Ph.D.
Cornell University
Age-related Alteration in Retinal Pigment Epithelial Metabolism - Significance to Age-related Macular Degeneration

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

Michael Sierks, Ph.D.
University of Maryland, Baltimore
Artificial Antibodies for Diagnosis and Treatment of Alzheimer's Disease

John R. Silber, Ph.D.
University of Washington
Consequences of Age-dependent Loss of the DNA Repair Protein O6-Methylguanine-DNA Methlytransferase in Human Brain

Mark A. Smith, Ph.D.
Case Western Reserve University
Markers of Oxidative Stress in Aging and Neurodegenerative Disease

J. Andrew Taylor, Ph.D.
Harvard Medical School
Effect of Age and Hypertension on Baroreflex-mediated Autonomic Outflow

Guochuan Tsai, M.D., Ph.D.
Harvard Medical School
A Pilot Study of D-cycloserine in Alzheimer's Disease

Christopher H. van Dyck, M.D.
Yale University School of Medicine
Motor Correlates of Striatal Dopamine Transporter Binding with [123I] ß-CIT SPECT in Older Adults

Holly Van Remmen, Ph.D.
University of Texas Health Science Center at San Antonio
Production of Transgenic Mice Overexpressing Catalase and Superoxide Dismutase: A Model to Test the Free Radical Theory of Aging

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Wright State University School of Medicine
Female Sex Hormones Prevent Age-induced Cardiovascular Dysfunction

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Albert Einstein College of Medicine
Aging Effects on Peripheral and Hepatic Glucose Metabolism

Bysani Chandrasekar, D.V.M., Ph.D.
University of Texas Health Science Center at San Antonio
Modulation of Age-associated Loss in Kidney Function by Calorie Restriction

Jonathan Day, Ph.D.
Pennsylvania State University
Plasticity in the Aging Rat Hippocampus

Kottarappat Dileepan, Ph.D.
University of Kansas Medical Center
Protective Effects of Heparin on Vascular Endothelium

Pamela Fink, Ph.D.
University of Washington
T-cell Receptor Repertoire in CD4-CD8- Peripheral T-cells from Aged Mice

Lorise Gahring, Ph.D.
University of Utah
Age-related Changes in Inflammatory Cytokine Expression in the Brain

Pamela Ann Gayheart, Ph.D.
Medical College of Pennsylvania
The Effects of Myocardial Ischemia on the Cardiac Sympathetic Nervous System of the Aging Heart

Garth Hall, Ph.D.
University of Pennsylvania
Phosphorylation of Tau Protein in Identified Lamprey Neurons: A Cellular Model for the Cytopathology of Alzheimer's Disease

Ahmad Heydari, Ph.D.
University of Texas Health Science Center at San Antonio
Does Caloric Restriction Alter Transcription of Specific Genes at the Level of Transcription Factors?

Eric Howard, Ph.D.
University of Oklahoma Health Sciences Center
Matrix Metalloproteinases in Bone Stromal Cells

David Hurley, Ph.D.
Tulane University
Growth Hormone Releasing Hormone Transcriptional Regulation in Aging

Mary King, M.D.
University of Connecticut Health Center
Do Postural Stability Limits Predict Dynamic Balance Responses?

Qian Li, Ph.D.
University of California, San Francisco
Effects of Aging on Voltage-dependent Ion Channels in Myocardial Cells

Brian Richard MacDonald, M.B., CHB, Ph.D.
Hospital of the University of Pennsylvania
A Cellular and Molecular Analysis of Osteoblast Differentiation

Susan Marengo, Ph.D.
Case Western Reserve University School of Medicine
Stimulation of Growth of the Prostatic Stroma by the Prostatic Epithelium: A Possible Role for a Paracrine Pathway in the Development of BPH

Daniel McCarty, M.D.
Medical College of Wisconsin
A Quantitative Approach to Inorganic Pyrophosphate Metabolism

Skye McDougall, Ph.D.
University of California, Los Angeles
The Role of TWIST in Controlling Type II Collagen Gene Expression in Chondrocytes and the Development of Osteoarthritis

Todd Morgan, Ph.D.
Research University of Southern California
TGF-B1 and the Microglial Response to Aging

Ramagopal Mudumbi, Ph.D.
Veterans Affairs Medical Center, Boise
Aging & Vascular Pharmacology of Adenosine

Lauren Nathan, M.D.
David Geffen School of Medicine at the University of California, Los Angeles
The Effects of Conjugated Equine Estrogens on Coronary Blood Flow

Usha Ponnappan, Ph.D.
University of Arkansas for Medical Sciences
Aging and Immune Function Role of Transcription Factor NFKB

Marko Radic, Ph.D.
Medical College of Pennsylvania
Molecular Basis for the Declining Antibody Response in Aging

May J. Reed, M.D.
University of Washington
Aging, Caloric Restriction and Wound Repair

Chandar Singaram, M.B.
University of Wisconsin-Madison
Pathogenesis of Esophageal Dysmotility in the Elderly

Charles Soparkar, M.D., Ph.D.
Baylor College of Medicine
Enhancing the Vascularization of Orbital Bone Substitutes: A Model for the Study of Changes in Angiogenesis and Aging

Eugenia Spanoupolou, Ph.D.
Rockefeller University
Age-related Loss of Immunoglobin Diversity & the Role of RAG-1 in the Bone Marrow Lymphocytes of Elder Mice

Pericles Stavropoulos, Ph.D.
Boston University
Synthesis of CuZnSOD Mimics as Potential Probes of Age-related Oxidative Damage

Giulio Taglialatela, Ph.D.
University of Texas Medical Branch
Neurotrophins Rescue of Apoptotic Neural Cells

W. Robert Taylor, M.D., Ph.D.
Veterans Affairs Medical Center, Decatur
Mechanisms of Age-related Impairment of Endothelial Function

Jonathan Tilly, Ph.D.
Johns Hopkins University
The Molecular Basis of Female Reproductive Aging & Menopause

Elias Traboulsi, M.D.
Johns Hopkins University
Mapping the Gene(s) for Chronic Open Angle Glaucoma (COAG)

Yaotang Wu, Ph.D
Children's Hospital, Harvard Medical School
Solid State NMR Study of Osteoporotic Bone

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University of Minnesota
Dietary Fiber Therapy for Fecal Incontinence

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University of Kansas
Effects of Protein & Lipid Oxidation on Intracellular Calcium Regulation

Gregory Boyarsky, Ph.D.
University of Texas Medical Branch
Regulation of Intracellular pH in Single Senescent Vascular Smooth Muscle

Judy Brunso-Bechtold, Ph.D.
Bowman Gray School of Medicine at Wake Forest University
Effects of Dietary Restriction on Cerebovascular and Neural Aging

Mary Lou Caspers, Ph.D.
University of Detroit-Mercy
Influence of Estrogen on High Affinity Choline Uptake during Aging

Kathryn Clark, Ph.D.
University of Michigan
Regulation of Cytochrome c with Oxidase Gene Expression in Aging Skeletal Muscle

Lucian Del Priore, M.D., Ph.D.
Washington University School of Medicine
Transplantation of Retinal Pigment Epithelium

Michele Didier, Ph.D.
McLean Hospital
Molecular Characterization of Glutamate Receptor Subunits in Neurodegeneration

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

Thomas C. Foster, Jr., Ph.D.
University of Virginia
Neurobehavioral Relations of the Senescent Hippocampus

Barry Gumbiner, M.D.
University of Rochester
Insulin Signal Transduction in Aging

Eun-soo Han, Ph.D.
University of Texas Health Science Center at San Antonio
Estrogen-dependent Gene Expression in the Aging Brain

Robert H. Helfert, Ph.D.
Southern Illinois University School of Medicine
Alterations in the Synaptic Organization of the Inferior Colliculus of Aging Fischer 344 Rats

Pamela L. Larsen, Ph.D.
University of Missouri, Columbia
A Molecular Genetic Approach to Efficient Life Maintenance

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Case Western Reserve University
Ischemic Injury in the Aging Heart

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

Marco Marcelli, M.D.
Baylor College of Medicine
Establishment of an Experimental Model to Study the Development of Hormone Unresponsive Prostate Cancer

Geraldine M. McCarthy, M.D.
Medical College of Wisconsin
Calcium-containing Crystal Deposition Arthritis and Aging

Laurie McCauley, Ph.D., DDS
University of Michigan
Aging and Parathyroid Hormone (PTH) Function: Effects of Estrogen on PTH Receptors in Bone

Daniel Muller, M.D.
University of Wisconsin
Aging Calorie Restriction and the Immune Response to Viral Infection

Mohammad A. Pahlavani, Ph.D.
University of Texas Health Science Center at San Antonio
Does Caloric Restriction and/or Dehydroepiandrosterone Therapy Alter the Age-related Decline in HSP 70 Expression in Lymphocytes?

David Roth, Ph.D.
University of Colorado
Molecular Mechanisms for Altered Adrenergic Responses during Aging: Effects of Chronic Dynamic Exercise on Cardiac Signal Transduction

Alan R. Shuldiner, M.D.
Johns Hopkins University
Duplication Scanning of Chromosome 21g22 in Alzheimer's Disease

Luis Felipe Sierra, Ph.D.
Medical College of Pennsylvania
Testing the Role of Cysteine Proteinases in the Process of Aging

Ray Thweatt, Ph.D.
University of Arkansas for Medical Sciences
Characterization of Novel Genes Overexpressed in Senescent Human Fibroblasts

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

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

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

Jeffrey Zachwieja, Ph.D.
Washington University School of Medicine
Role of Glutamine in Skeletal Muscle Protein Synthesis: Is There an Age-related Effect?

Michael Zagorski, Ph.D.
Case Western Reserve University
Sequence Specific pKa Measurements of the Amyloid ß-Peptide Found in Alzheimer's Disease

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Nancy L. Baenziger, Ph.D.
Washington University School of Medicine
Relationship of Bradykinin Receptor Expression to Cellular Senescence in an In Vitro Model of Aging

Neil C. Binkley, M.D.
University of Wisconsin-Madison
Effect of Interleukin-6 on Bone of Middle-aged and Old Rhesus Monkeys

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

Jorge A. Busciglio, Ph.D.
Children's Hospital, Boston
A Human Cortical Culture System as a Model for Alzheimer's Disease

Joseph M. Capasso, Ph.D.
New York Medical College
Mechanical Cell Death Contributes to the Development of Heart Failure in the Aged

Dean E. Dluzen, Ph.D.
Northeastern Ohio Universities
Age-related Changes in Olfactory Bulb Noradrenergic System: Implications of Neurochemical Correlates of Olfactory Memory-recognition Processes

Nejat K. Egilmez, Ph.D.
McClellan Memorial Veterans Affairs Hospital
Identification and Characterization of Genes that Modulate Lifespan in Caenorhabditis elegans

Mona M. Everett, Ph.D.
University of Texas Health Science Center at San Antonio
TGF-ß Family Proteins and Cultured Bone Marrow Stromal Cells from Mature and Aging Rats

Ronaldo P. Ferraris, Ph.D.
University of Medicine & Dentistry of New Jersey
Effect of Age on Site Density of Intestinal D-glucose Transporters

Nestor F. Gonzalez-Cadavid, Ph.D.
Harbor/University of California, Los Angeles Medical Center
The Role of Aging in Erectile Dysfunction: Assessment of the Nitric Oxide Cascade in the Aged Rat Penis

Marcia N. Gordon, Ph.D.
University of Southern California
Microglial Responses to Injury in Aging Brain

Joyce B. Harp, M.D.
Emory University School of Medicine
The Renin-Angiotensin System in Adipose Tissue from Aging Spontaneously Hypertensive Rats

Stephen L. Helfand, M.D.
University of Connecticut Health Center
Regulation of Gene Expression during Aging

Lenore Holte, Ph.D.
Syracuse University
The Effects of Aging on Multi-frequency Tympanograms

Joel Horwitz, Ph.D.
Medical College of Pennsylvania
Phosphatidylcholine Hydrolysis in the Aging Rat

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

Philip E. Keeting, Ph.D.
West Virginia University
Steroid Hormone Effects on Human Osteoblastic Cell Interleukin-1 Production

Regina A. Kreisle, M.D., Ph.D.
Purdue University
Investigation of Age-related Changes in Angiogenesis Using an Intradermal Angiogenesis Assay in Mice

Bruce S. Kristal, Ph.D.
University of Texas Health Science Center at San Antonio
Oxidant-induced Repression of Mitochondrial Transcription: Testing the Predictions of the Free Radical and Free Radical/Glycation Theories of Aging

Annette T. Lee, Ph.D.
Picower Institute for Medical Research
Age-related DNA Mutations of the Integrated 1acI Gene in Transgenic Mice

Kathy Magnusson, D.V.M., Ph.D.
Colorado State University
Age-related Changes in the Function of Excitatory Amino Acid Receptors

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

Estela E. Medrano, Ph.D.
University of Cincinnati College of Medicine
Cellular, Biochemical and Molecular Characterization of the Aging Melanocyte from Human Adult Skin: A Preliminary Approach

Keith C. Meyer, M.D.
University of Wisconsin
Immunologic Changes in the Aging Human Lung

Dorabeth Parsons, Ph.D.
University of Colorado
Hormonal and Cellular Response to Heavy Resistance Exercise in the Elderly

Kathryn V. Porrello, Ph.D.
Doheny Eye Institute
Retinal Cytoskeletal Alterations in Aging and in Alzheimer's Disease

Karen M. Prestwood, M.D.
University of Connecticut Health Center
The Relationships of Bone Turnover and Bone Loss in Women 70 Years and Older

Julio A. Rimarachin, M.D.
Cornell University Medical College
Age-related Arterial Intimal Hyperplasia

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

Alan R. Salkind, M.D.
University of Mississippi Medical Center
Human Aging and Leukocyte Senescence

David R. Sell, Ph.D.
Case Western Reserve University
Pentosidine as a Biomarker for Cellular Aging of Human Skin Fibroblasts in Culture

Ram K. Sihag, Ph.D.
Harvard Medical School
Role of Phosphorylation in the Dynamics of Brain Spectrin in Aging Neurons

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

Henri Tiedge, Ph.D.
Mount Sinai School of Medicine
Dendritic Protein Synthesis in the Aging Rat Brain

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

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

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

Mariann Blum, Ph.D.
Mount Sinai School of Medicine
The Role of EGF and bFGF Gene Expression in the Maintenance and Neurodegeneration of Mesostriatal Dopamine Neurons

Patsy M. Brannon, Ph.D.
University of Arizona
Aging, Malnutrition and Pancreatic Function

Edith A. Burns, M.D.
Sinai-Samaritan Medical Center
The Role of T-cell and Accessory Cell-derived Cytokines in the Decreased Specific Humoral Immune Response of Aging

Sherry Bursztajn, Ph.D.
Mailman Research Center, Boston
Expression of Calcium-activated Neutral Proteases in an Age-related Model of Spinal Cord Degeneration

Greg D. Cartee, Ph.D.
University of Wisconsin-Madison
Mechanisms of Altered Glucose Metabolism with Chronic Growth Hormone Treatment in Mature, Middle-aged and Old Rats

Jane Reichert Clements, Ph.D.
Texas A & M University
Age-related Changes in Excitatory Amino Acid Neurotransmission within the Substantia Nigra

Robert A. Colvin, Ph.D.
Ohio University College of Osteopathic Medicine
Na/Ca Exchange and Brain Aging

Perry L. Colvin, Jr., M.D.
Bowman Gray School of Medicine at Wake Forest University
Acclimation to Dietary Cholesterol in Macaca fascicularis

Robert E. Corin, Ph.D.
College of Staten Island, City University of New York
Cloning of GH-induced Antiproliferative Genes during Terminal Differentiation

Isabelle (Reveillaud) Draper, Ph.D.
Linus Pauling Institute, Palo Alto
Development of Transgenic Animals for Aging Research: Introduction of Antioxidant Genes in Drosophila

Catherine E. DuBeau, M.D.
Harvard Medical School
A Simplified Diagnostic Strategy for Benign Prostatic Hypertrophy in Elderly Men

Janet M. Dubinsky, Ph.D.
University of Texas Health Science Center at San Antonio
Role of Intracellular Calcium Levels in Trophic Factor-dependent Survival of Central Cholinergic Neurons

John Fox, Ph.D.
Tulane University Medical Center
Regulation of Parathyroid Hormone in Aging Rats

Ruby Ghadially, Ph.D.
University of California, San Francisco
Functional and Structural Alterations in Aged Epidermis

Mark D. Grabiner, Ph.D.
The Cleveland Clinic
Relationship between Trunk Biomechanics and Falling Behavior in the Elderly

Brenda Hall, Ph.D.
Mount Sinai Medical Center
Study of Frequency of Somatic Mutation in V Gene Encoding Autoantibodies during Aging

Marilyn Hartman, Ph.D.
University of North Carolina
Age Differences in Selective Attention and Memory

Monte V. Hobbs, Ph.D.
Scripps Clinic, La Jolla
Subsets of CD4+ T-cells in Aging Mice

Laura J. Jenski, Ph.D.
Indiana University
Omega-3 Fatty Acids in Plasma and Mitochondrial Membranes of Aging T-lymphocytes

Rodrigo O. Kuljis, M.D.
University of Iowa
Cytochemical Substrate of the Visual Impairment in Aging and in Alzheimer's Disease

Anat A. Lev, Ph.D.
Massachusetts General Hospital
Cloning of Ciliary Neurotrophic Factor and Characterization of its Role in Aging and Age-related Disorders of the Human Nervous System

Alice C. Levine, M.D.
Mount Sinai Medical Center
In Vitro Studies on the Pathogenesis of Benign Prostate Hyperplasia

Richard J. McCormick, Ph.D.
University of Wyoming
Myocardial Collagen Gene Expression and Extracellular Matrix Characteristics of the Rat Heart: Effects of Aging and Exercise Training

Charles V. Mobbs, Ph.D.
Rockefeller University
A Neuroendocrine Mechanism Potentially Mediating Effects of Dietary Restriction and Glucose on Age-correlated Pathologies

Douglas C. Powers, M.D.
Saint Louis University School of Medicine
Age-related Changes in Lymphocyte Adhesion

Mitch O. Rotenberg, Ph.D.
Medical College of Pennsylvania
Isolation of cDNAs Encoding Human, Senescence-specific Anti-proliferative Factors: A Novel Approach

Janet Rubin, M.D.
Emory University School of Medicine
Effects of Time-varying Electric Fields on Bone Resorption and Formation

Joseph A. Schauerte, Ph.D.
University of Michigan
Role of Charge-transfer in Ligand Binding and Chemical Oxidation

Andrew J. Silver, M.D.
Saint Louis University School of Medicine
An Animal Model of Age-related Hypodipsia

Thomas M. Skeehan, M.D.
Penn State Milton S. Hershey Medical Center
Mechanisms of Anesthetic-induced Myocardial Depression in Senescence: In Vitro and Ex Vivo Studies

Dan F. Spandau, Ph.D.
Indiana University School of Medicine
Anti-oncogene Expression during Terminal Differentiation and Cellular Senescence

Janet S. Sunness, M.D.
Johns Hopkins University School of Medicine
Retinal Sensitivity Change as a Marker for Developing Subretinal New Vessel Membranes in Age-related Macular Degeneration

John P. Walsh, Ph.D.
University of Southern California
Age-dependence of the Electrophysiological Response to Excitotoxity in the Basal Forebrain

Christina Wang, M.D.
Cedars-Sinai Medical Center
The Effect of Aging on the Role of Insulin Growth Factor I in Testicular Steroidogenesis in the Rat

Funmei Yang, Ph.D.
University of Texas Health Science Center at San Antonio
Molecular Basis for the Age-modulated Ceruloplasmin Expression in Kidney

Judith I. Yannariello-Brown, Ph.D.
University of Texas Medical Branch
Effects of Aging on Circulating Hyaluronate Levels and Liver Endothelial Cell Hyaluronate Receptor Function

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University of Illinois College of Medicine
Transgenic Animal Models of Alzheimer's Disease

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Arizona State University
Detection of Amplitude Modulation in the Elderly

Bula Bhattacharyya, Ph.D.
University of Iowa
Age-related Alteration of Neuromuscular Transmission: Effect of Halothane

Paula Bickford-Wimer, Ph.D.
University of Colorado Health Sciences Center
Cerebellar Involvement in Age-related Impairments in Motor Learning

Gabriel H. Brandeis, M.D.
Harvard Medical School
A Simplified Diagnostic Test for Incontinence in Frail Elderly Men

Judith Campisi, Ph.D.
Boston University School of Medicine
Cellular Aging and Proto-oncogene Expression

Ming L. Chen, Ph.D.
Saint Louis University School of Medicine
Age-related Changes in the Regulation of Renal Ca-binding Protein by Vitamin D

Barbara A. Clark, M.D.
Harvard Medical School
Mechanisms of Secretion and Pathophysiologic Consequences of Elevated Atrial Natriuretic Peptide in the Elderly

David C. Dale, M.D.
University of Washington
Hematopoietic Progenitors and Aging: Proliferative Response to Hematopoietic Growth Factors

Timothy L. Denton, Ph.D.
Andrus Gerontology Center at the University of Southern California
Expression of BDNF in the Aging Brain

Henry J. Donahue, Ph.D.
Stony Brook Health Sciences Center, State University of New York
Age-related Changes in Bone Cell Signal Transduction

Kevin Flurkey, Ph.D.
Boston University School of Medicine
The Cellular Basis for Age-related Change in Activation of Helper T Lymphocytes

Changiz Geula, Ph.D.
Beth Israel Hospital, Boston
Effects of Aging on the Morphometric Parameters of Cholinergic Neurons of the Nucleus Basalis of Meynert in Man

F. Michael Gloth, III, M.D.
Johns Hopkins University School of Medicine
Vitamin D Deficiency in Homebound Elderly

Steven R. Hager, Ph.D.
Medical College of Wisconsin
Cellular Mechanisms of Age-related Insulin Resistance in Rat Muscle and Adipose Tissue

Seigo Izumo, M.D.
Beth Israel Hospital, Boston
Molecular Mechanisms of Myocardial Senescence: Role of Proto-oncogene Expression

Li Li Ji, Ph.D.
University of Illinois
Aging and Antioxidant Enzymes: Adaptation to Chronic Exercise

Mirtha Kelijman, M.D.
Saint Louis University School of Medicine
Spontaneous Secretion of Growth Hormone in Aging Humans

Madeleine A. Kirchberger, Ph.D.
Mount Sinai Medical Center
Is Increased Phosphoprotein Phosphotase Activity a Possible Factor in Decreased Responsiveness to ß Adrenergic Hormones in Senescent Myocarium?

G. Gopal Krishna, M.D.
Temple University School of Medicine
Effect of Potassium Depletion on Blood Pressure in Elderly

Robin J. Leach, Ph.D.
University of Texas Health Science Center at San Antonio
Regulation of the Estrogen Receptor in an Osteoblast-like Osteosarcoma: A Model for Osteoporosis

Ruth Medina, Ph.D.
Harvard Medical School
Systems for Degrading Abnormal Proteins in Brain in Alzheimer's Disease

Mervyn Monteiro, Ph.D.
University of Maryland
A Biochemical and Immunological Study of Neurofilaments in Aging

Rama K. Nemani, Ph.D.
Saint Louis University School of Medicine
Decreased Renal Production of Biologically Active Vitamin D with Age

Carol J. Phelps, Ph.D.
Tulane University Medical Center
Catecholaminergic Neuron Plasticity in the Aged Rat Brain

Raymond M. Quock, Ph.D.
University of Illinois College of Medicine
Opioid Analgesia and Brain Opoid Radioligand Binding in Senescent Rats

Jane F. Reckelhoff, Ph.D.
University of Mississippi Medical Center
Mechanisms of Age-dependent Change in Renal Protein Turnover in the Rat

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

Martin Sarter, Ph.D.
Ohio State University
Disinhibition of Cortical Cholinergic Activity and Attenuation of Age-related Attentional Impairments

Jacob J. Steinberg, M.D.
Albert Einstein College of Medicine
Alteration of DNA Binding Sites and Proteins in Aging

Bruce R. Troen, M.D.
University of Michigan
Regulation of Expression of Cathepsin L

Alan Tucker, Ph.D.
Colorado State University
The Effects of Aging and Exercise on Vascular Reactivity in the Isolated Perfused Rat Hindlimb

David S. Ucker, Ph.D.
Medical Biology Institute, La Jolla
Susceptibility of T-cells to Activation-driven Cell Death: Aging-associated Changes and Autoimmunity

Molly S. Weiler, Ph.D.
University of Wisconsin School of Pharmacy
Muscarinic Modulation of Neostriatal Acetylcholine Release during Senescence

William V. Williams, M.D.
University of Pennsylvania
Autoimmunity and Aging: Cyrokine Involvement in the Development of Rheumatoid Sinovitis

John Ding-e Young, M.D. Ph.D.
Rockefeller University
Molecular Mechanisms of Programmed Cell Death (Apoptosis)

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Kevin J. Anderson, Ph.D.
University of Florida
Excitotoxicity and NMDA Receptors in the Aged Brain

John Aronson, Ph.D.
Wistar Institute
Enhancer Sensitive Cell Lines for Aging Studies

Stephen Baumann, Ph.D.
University of Texas Medical Branch
The Use of Magneto-encephalography to Detect Mild Alzheimer's Disease

Xandra O. Breakefield, Ph.D.
Eunice Kennedy Shriver Center, Boston
Age-related Regulation of Monamine Oxidase

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Washington State University
Immunologic and Biologic Potencies of Prolactin Hormonal Forms Synthesized by Young and Old Rat Pituitary Glands

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

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Bowman Gray School of Medicine at Wake Forest University
The Role of the Aging Process on Insulin Receptor Recycling In Vivo

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The ß-Amyloid Gene of Yeast

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Protease Nexin I Binding: A Biochemical Marker for Alzheimer's Disease?

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Prolactin Rejuvenation of Aged Murine Mucosal Immunity

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Cholinergic and Noradrenergic Mechanisms in the Hippocampus: Possible Molecular Locus for Aging-related Memory Dysfunction

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Aluminum Access to the Brain: The Role of the Transferrin Receptor

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Molecular Studies of Disorders of Accelerated Aging

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Amyloid and Aging: Abnormalities in the Processing of Autologous Proteins

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Relationship of Strength, Muscle Length, Balance, and Gait Characteristics to Falling in Elderly Women

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Age-related Differences in Human Regional Blood Flow

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Role of Lymphokines in Decreased Lymphoproliferative Response of the Elderly and Relation to Morbidity and Mortality

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ß-Amyloid of Alzheimer's Disease: Assembly and Stability

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An Examination of NGF's Efficacy in Aged Rats

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Modulation of Human Vascular Smooth Muscle Cell Responses to Monocyte Factors by n-3 Fatty Acids and DHEA

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Escape from Senescence: The SUSM-1 Cell Line as a Model System

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Expression of a Senescence-related Gene during Cellular Aging

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Effect of Prenatal Oxygen Exposure on Growth, Metabolism, Aging and Longevity of Drosophila

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Effects of Aging on Sensory-motor Information Processing Capabilities of Mammalian Association Cortex

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Northwestern University Medical School
Mechanisms of Age-related Memory Deficits

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Neurochemical Correlates of Hippocampal Aging

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DNA Repair of Proto-oncogenes during Aging

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

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Pettis Memorial Veterans Affairs Hospital
A T-cell Biomarker of Cellular Aging

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Healing of Osteoarthritic Cartilage by Nd:YAG Laser Radiation

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Molecular Mechanisms of Muscarinic Acetylcholine Receptor in Aging

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Chromosome 21 DNA Determinations on Age-associated Dementias

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Scrapie as a Model for Alzheimer's Disease: Purification & Characterization of a Putative Amyloid Precursor Protein

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Early Signs of Cognitive Impairment in Parkinson's Disease and Normal Aging

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Regulation of the Intestinal Immune Response in the Aged Rat

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Senile Dementia: Combination Drug Therapy and Toxicity

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Johns Hopkins University School of Medicine
Cortical Cholinergic Lesion: Model for Alzheimer's Disease

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Brandeis University
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Anna Moore, Ph.D.
Emory University
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University of Alabama at Birmingham
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University of Rochester Medical Center
Regulatory Interactions between JNK and Insulin Signaling in the Control of Lifespan

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Adam Antebi, Ph.D.
Baylor College of Medicine
Purification of a lipophilic hormone regulating C. elegans *diapause and aging*

Scott D. Pletcher, Ph.D.
Baylor College of Medicine
Genetic mechanisms of enhanced immune function and delayed functional senescence in Drosophila melanogaster

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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 αß Toxicity on Neuronal Structures

Adam Gazzaley, M.D., Ph.D.
University of California, Berkeley
Cognitive Aging: Elucidating the Relationship Between Structure Function and Behavior

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Genetic Dissection of Functional Senescence in Drosophila

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Ohio State University Research Foundation
The Role of Ubiquitinated Prion Protein in Neurodegeneration

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Harvard Medical School
Mitochondrial DNA Repair and Parkinson's Disease

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Weill Medical College of Cornell University
Cardiac Myocyte Derivation from Aging Bone Marrow Cells

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

2000 Age-related Neurodegenerative Diseases

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

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University of California, Irvine
Molecular Determinants of Presenilins in Intracellular Calcium Signaling Pathways

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

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

1999 Cardiovascular Diseases and Aging

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

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

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

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

AFAR/Pfizer Research Grant

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

2003 Metabolic Control and Late Life Diseases

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

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

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

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

2002 Immunology and Aging

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

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

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

2001 Hormones and Aging

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

Naibedya Chattopadhyay, Ph.D.
Brigham & Women's Hospital
Anabolic Actions of 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

Paul Beeson Career Development Awards in Aging Research Program

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

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

2005 Scholars

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

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

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

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

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

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

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

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

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

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

Cathleen S. Colon-Emeric, M.D.
Duke University Medical Center
Evidence-based Medicine in the Skilled Nursing Facility

William Dale, M.D., Ph.D.
University of Chicago
Emotions in Medical Decision-making in Older Adults

Lee E. Goldstein, M.D., Ph.D.
Brigham and Women's Hospital/Harvard Medical School
Alzheimer's Disease Beta-amyloid in the Lens

Cary P. Gross, M.D.
Yale University
The Impact of Comorbidity on Older Cancer Patients

John J. Lehman, M.D.
Washington University
Mitochondrial Control by PGC-1a in Young and Aging Heart

Andrew P. Lieberman, M.D., Ph.D.
University of Michigan
Modifiers of Polyglutamine Toxicity

Atul Malhotra, M.D., Ph.D.
Brigham Women's Hospital/Harvard Medical School
Aging Influence on the Development of Sleep Apnea

Marcin Sadowski, M.D., Ph.D.
New York University School of Medicine
Blocking APOE/αß Binding as a Novel AD Therapy

Catherine A. Sarkisian, M.D., M.S.P.H.
University of California, Los Angeles School of Medicine
Intervention to Raise Octogenarians' Walking Levels

Clemens R. Scherzer, M.D.
Brigham & Women's Hospital/Harvard Medical School
Genomic and Genetic Analysis of Parkinson's Disease

Lisa C. Silbert, M.D.
Oregon Health and Science University
White Matter Change and CNS Process in the Elderly

Joe Verghese, M.D.
Albert Einstein College of Medicine
Latent Mobility Abnormalities and Disability

2003 Scholars

Meredith Hawkins, M.D.
Albert Einstein College of Medicine
The Role of Nutrient Excess in Mediating the Insulin Resistance of Aging

Michael C. Irizarry, M.D.
Massachusetts General Hospital - East/Harvard Medical School
Beta-secretase and Alzheimer's Risk with Aging

Kenneth Langa, M.D., Ph.D.
University of Michigan
Long-term Outcomes of Caring for a Disabled Spouse

Sarah H. Lisanby, M.D.
Columbia University College of Physicians and Surgeons
Brain Stimulation and Pharmacological Strategies to Reduce the Cognitive Side Effects of ECT in Geriatric Depression

Jack M. Parent, M.D.
University of Michigan
Stimulation of Endogenous Neural Stem Cells to Promote Recovery after Stroke

Henry L. Paulson, M.D., Ph.D.
University of Iowa
RNA interference (RNAi) as Novel Therapy for Age-related Disease

Elizabeth A. Phelan, M.D.
University of Washington
Improving Primary Care of Older Adults

Wendy S. Post, M.D.
Johns Hopkins University School of Medicine
Vascular Properties and Genetics Associated with Longevity in the Amish

Norman Sharpless, M.D.
University of North Carolina at Chapel Hill
The Role of the Tumor Suppressor P16 ink4a in Mammalian Aging

Michael G. Shlipak, M.D., M.P.H.
University of California, San Francisco
Preventing Heart Failure in Elderly Persons with Chronic Renal Insufficiency

Reisa A. Sperling, M.D., M.M.Sc.
Brigham & Women's Hospital/Harvard Medical School
Investigating the Neural Underpinnings of Memory Impairment in Aging and Early Alzheimer's Disease

2002 Scholars

David J. Casarett, M.D.
University of Pennsylvania School of Medicine
Improving Decision-making about End-of-life Care and Promoting Earlier Referral to Hospice

James E. Galvin, M.D.
Washington University School of Medicine
In Vitro and In Vivo Models of Synucleinopathies

Brad Johnson, M.D., Ph.D.
University of Pennsylvania School of Medicine
Functions of the Werner Syndrome Family of Proteins in Telomerase-deficient Mice and Yeast

Albert R. La Spada, M.D., Ph.D.
University of Washington School of Medicine
Development of Therapies for Polyglutamine Neurodegeneration and Related Disorders

Michael T. Lin, M.D.
Weill Medical College of Cornell University
Mitochondrial DNA Mutations in Aging and Alzheimer's Disease

Robert A. Marciniak, M.D., Ph.D.
University of Texas Health Science Center at San Antonio
Oxidative Stress and Telomere Maintenance: In Vitro and In Vivo Studies

Laura E. Niklason, M.D., Ph.D.
Duke University School of Medicine
Lifespan Extension of Vascular Cells for Tissue Engineering

Michael A. Schwarzschild, M.D., Ph.D.
Harvard Medical School
Sorting Out Clues to Parkinson's Disease: Caffeine, Postmenopausal Estrogen and Addiction

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

2001 Scholars

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

Katrin Andreasson, M.D.
Johns Hopkins University School of Medicine
Mechanisms of Cyclooxygenase-2-dependent Neuronal Injury in Aging and Neurodegenerative Disease

Eric A. Coleman, M.D., M.P.H.
University of Colorado Health Sciences Center
Reducing Care Fragmentation Across Sites of Geriatric Care

Jay M. Edelberg, M.D., Ph.D.
Weill Medical College of Cornell University
Restoration of Senescent Cardiac Angiogenic Activity by Bone Marrow Transplantation

Wesley Ely, M.D., M.P.H., F.C.C.P.
Vanderbilt University School of Medicine
The Role of Delirium and Psychoactive Drug Use on Outcomes Following Mechanical Ventilation in Older Persons

Roger J. Hajjar, M.D.
Harvard Medical School
Targeting Signaling Pathways in Aging Hearts by Gene Transfer

James A. Mastrianni, M.D., Ph.D.
University of Chicago School of Medicine
Aging and the Misfolded Protein: Prion Disease as a Model for Disaggregating the Aggregate

Michael C. Naski, M.D., Ph.D.
University of Texas Health Science Center at San Antonio
Matrix Homeostasis and Gene Expression in Aging Cartilage

M. Carrington Reid, Ph.D., M.D.
Yale University School of Medicine
Determining the Impact of Back Pain on Physical and Social Disability Among Older Adults

Mary Whooley, M.D.
University of California School of Medicine, San Francisco
Mechanisms of Association Between Depression and Poor Health Outcomes in Older Patients

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

2000 Scholars

Brock Beamer, M.D.
Johns Hopkins University School of Medicine
Genetic Variation in PPAR-γ and RXRd: Effects on Body Composition and Metabolism in Older Adults

Gunnar K. Gouras, M.D.
Weill Medical College of Cornell University
Neuronal A-beta Accumulation: Aging and Oxidative Stress

Mary Beth Hamel, M.D., M.P.H.
Harvard Medical School
Decision-making and Outcomes for Elderly Patients with Surgical Problems

Joshua M. Hare, M.D.
John Hopkins University School of Medicine
The Role of Nitric Oxide in Aging-related Cardiovascular Adaptions

Fuki M. Hisama, M.D.
Yale School of Medicine
The Molecular Basis of Aging in Werner Syndrome

Jason H. Karlawish, M.D.
University of Pennsylvania School of Medicine
Caregiver and Patient Preferences for the Treatment of Alzheimer's Disease

Jean S. Kutner, M.D., M.S.P.H.
University of Colorado Health Sciences Center
Symptom Management at the End of Life: Decreasing Distress and Improving Quality of Life

Brett Lauring, M.D., Ph.D.
Columbia University College of Physicians & Surgeons
An In Vitro Assay for Gamma Secretase Processing of the Amyloid Precursor Protein

Frank S. Lee, M.D., Ph.D.
University of Pennsylvania School of Medicine
Protein Kinases and Alzheimer's Disease

R. Sean Morrison, M.D.
Mount Sinai School of Medicine
Interventions to Improve Pain Outcomes

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

1999 Scholars

Kenneth E. Covinsky, M.D., M.P.H.
University of California, San Francisco
Outcomes of Frail Nursing Home-eligible Elders Living in the Community

Matthew P. Frosch, M.D., Ph.D.
Harvard Medical School
Estrogen, Aging and Alzheimer's Disease Mechanisms and Model Systems

Daniel T. Laskowitz, M.D.
Duke University Medical Center
Apolipoprotein E, Microglial Activation, and Neurodegenerative Disease

Dale Leitman, M.D., Ph.D.
University of California, San Francisco
Role of Coactivators in Estrogen Repression of Gene Transcription

Richard Z. Lin, M.D.
University of Texas Health Science Center at San Antonio
The Role of Oxidative Stress in Aging Effects on Vascular Smooth Muscle Cell Growth and Signal Transduction

David R. Lynch, M.D., Ph.D.
University of Pennsylvania
Excitotoxicity in Neurodegenerative Disorders: New Understanding from NMDA Receptor Subtypes

Edward R. Marcantonio, M.D., S.M.
Harvard Medical School
Reducing Delirium in Post-acute Care: An Interventional Trial

Mitchell S. Nobler, M.D.
Columbia University College of Physicians & Surgeons
Serotonin and PET Neuroimaging in Normal Aging and Geriatric Depression.

Anne Louise Oaklander, M.D., Ph.D.
Harvard Medical School
Cellular Mechanisms of Chronic Neuropathic Pain

Thomas A. Rando, M.D., Ph.D.
Stanford University School of Medicine
Mechanisms of Age-related Muscle Atrophy: The Role of Cellular Antioxidant Defenses

1998 Scholars

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

Laura L. Dugan, M.D.
Washington University School of Medicine
Mechanisms of Neuroprotection by C60 Derivatives: Relevance to Oxidative Stress During Aging

Terri R. Fried, M.D.
Yale University School of Medicine
A Longitudinal Study of Terminally Ill Patient's Preference for Care

Anne M. Kenny, M.D.
University of Connecticut Health Center
Mechanisms of Bone Loss in Older Men with Low Testosterone Levels

Alison A. Moore, M.D., M.P.H.
University of California, Los Angeles School of Medicine
Screening for Harmful and Hazardous Drinking in Older Persons

Thomas T. Perls, M.D., M.P.H.
Harvard Medical School
The Genetics of Longevity

Eric D. Peterson, M.D., M.P.H.
Duke University Medical Center
Toward a Rational Use of Revascularization in the Aged

Scott Turner, M.D., Ph.D.
University of Michigan Medical School
The Role of X11& in Amyloid Precursor Protein

Jeremy D. Walston, M.D.
Johns Hopkins University School of Medicine
Molecular Etiologies of Age-related Changes in Body Composition

Raymond Yung, M.D.
University of Michigan Medical School
Lymphocyte Homing in Aging

1997 Scholars

Nir Barzilai, M.D.
Albert Einstein College of Medicine
The Effect of Age-dependent Increase in Visceral Fat on Insulin Action and Secretion

Michele Bellantoni, M.D.
Johns Hopkins University School of Medicine
Growth Hormone and Sex Steroid Effects on Bone in Older Women

James R. Burke, M.D., Ph.D.
Duke University Medical Center
Polyglutamine Proteins as a Model System for Studying Protein Aggregation and Cell Death in Aging and Neurodegenerative Disease

Mark D'Esposito, M.D.
University of Pennsylvania School of Medicine
Functional Neuroimaging Studies of Working Memory in Normal Human Aging

Thomas M. Gill, M.D.
Yale University School of Medicine
Identifying the Events that Precipitate Functional Dependence Among Community-living Elderly Persons

Bernard F. Godley, M.D., Ph.D.
University of Texas Medical Branch
The Role of Oxidative Damage and Repair in Age-related Macular Degeneration

Todd E. Golde, M.D., Ph.D.
Mayo Clinic Medical School, Jacksonville
Proteolytic Generation of the Amyloid Beta Peptide in Alzheimer's Disease

Helen Hoenig, M.D., M.P.H.
Duke University Medical Center
An Investigation of the Physical Costs and the Quality of Life Benefits of Wheelchairs for Older Persons

Elan D. Louis, M.D., M.S.
Columbia University College of Physicians and Surgeons
Functional Correlates of Essential Tremor

Charles A. Thornton, M.D.
University of Rochester School of Medicine and Dentistry
Pathophysiology of Myotonic Dystrophy, a Progeroid Syndrome

1996 Scholars

Christopher M. Callahan, M.D.
Indiana University School of Medicine
The Use of Percutaneous Endoscopic Gastrostomy Among Older Adults in a Community Setting

Robert W. Doms, M.D., Ph.D.
University of Pennsylvania School of Medicine
Presinilin 1, APP, and Alzheimer's Disease

Murali Doraiswamy, M.D.
Duke University Medical Center
Apolipoprotein E Type 4 Allele and Cerebral Metabolism in Relatives at Risk for Familial Alzheimer's Disease

Harlan M. Krumholz, M.D.
Yale University School of Medicine
Clinical Spectrum, Treatment and Outcome of Elderly Congestive Heart Failure Patients

Makau Lee, M.D., Ph.D.
University of Mississippi Medical Center
Studies on Aging, Dietary Restriction and Gastric Mucosal Defense

Richard F. Loeser, M.D.
Rush Medical College
Growth Factors and Aging in Cartilage

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

May J. Reed, M.D.
University of Washington School of Medicine
Angio-genesis, the Extra-cellular Matrix, and Wound Repair in Aging

Robert Glenn Smith, M.D., Ph.D.
Baylor College of Medicine
Role of Voltage-gated Calcium Channel Auto Antibodies in Motoneuron Injury in ALS

1995 Scholars

Ashley I. Bush, M.D., D.P.M., Ph.D.
Harvard Medical School
Zinc Exposure as a Risk Factor for Alzheimer's Disease

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

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

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

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

Frank M. Longo, M.D., Ph.D.
University of California, San Francisco School of Medicine
New Strategies for Treating Neurodegenerative Disease

Richard A. Marottoli, M.D., M.P.H.
Yale University School of Medicine
Development of a Strategy for Identifying Which Older Drivers are at Risk for Crashes and Moving Violations

Lina M. Obeid, M.D.
Medical University of South Carolina
Role of Ceramide in Inducing the Senescent Phenotype through Activating a Growth Suppressor Pathway and by Inhibiting a Mitogenic Pathway

Peter Reaven, M.D.
University of California, San Diego School of Medicine
The Relationship of Aging and Antioxidant Defense Systems to Atherosclerosis

Alan R. Shuldiner, M.D.
University of Maryland School of Medicine
Genetics of Diabetes and Obesity in the Elderly

AFAR/Merck Junior Investigator Award in Geriatric Clinical Pharmacology

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

2005 Investigators

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

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

2004 Investigators

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

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

2003 Investigators

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

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

2002 Investigators

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

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

2001 Investigators

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

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

2000 Investigators

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

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

1999 Investigators

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

1998 Investigators

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

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

1997 Investigators

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

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

1996 Investigators

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

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

1995 Investigators

Barbara Clark, M.D.
Harvard Medical School

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

1994 Investigators

Adalsteinn Gudmundsson, M.D.
University of Wisconsin

Fouzia Lagrhissi-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

2004 Fellows

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

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

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

2003 Fellows

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

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

Marc F. Poitras, Ph.D.
New York University School of Medicine
Molecular Mechanisms of 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. Killilea, Ph.D.
Children's Hospital Oakland Research Institute
Cellular Aging Alters Intracellular Iron Homeostasis

Gawain McColl, Ph.D.
Buck Institute for Age Research
The Role of KU70 in Stress Resistance and Aging

Andrej 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

2001 Fellows

Debdutta Bandyopadhay, Ph.D.
Baylor College of Medicine
Role of Histone Deacetylation in Melanocytes Senescence

Kathy Barsz, Ph.D.
University of Rochester Medical Center
The Effect of Aging on Physiological Correlates of Masked Intensity Judgments

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

Faith Gunning-Dixon, Ph.D.
Hospital of the University of Pennsylvania
The Neural Basis of Age-related Declines in Episodic Memory

Kimmo J. Hatanpaa, M.D., Ph.D.
Johns Hopkins University
Catabolism of Alzheimer Amyloid Beta-protein

Shunai Jiang, M.D., Ph.D.
Emory University
Fas Ligand and Fas in Aging

Pankaj Kapahi, Ph.D.
California Institute of Technology
Isolation and Characterization of Genes That Extend Lifespan and Prevent Neurodegeneration Using Drosophila melanogaster *as a Model System*

Plamen D. Penev, M.D., Ph.D.
University of Chicago
Poor Sleep Quality and Testosterone Decline in Older Men

Claus U. Pietrzik, Ph.D.
University of California, San Diego
Role of the LRP in Cytoplasmic Domain in APP Processing

Leanne Rae Stewart, Ph.D.
Washington University School of Medicine
The Involvement of Mutant PrP Accumulation and Apoptosis in Neurodegeneration in Tg(PG14) Mice

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

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

2004 Scholars

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

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

Sarah E. Smith
University of California, Irvine
Medication Use in Dementia Patients in Adult Day Health Centers

2003 Scholars

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

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

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

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

Angela A. McMichael
University of Maryland, Baltimore
Improving Diabetes Medication Management in Older Adults

2002 Scholars

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

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

Daniel G. Kloda
University of New England
Role of Dynorphin Peptides in Age-associated Cognitive Impairment

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

Heather Sturgill
Virginia Commonwealth University
Tissue Factor Polymorphism in Postmenopausal Women

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

2001 Scholars

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

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

Jay Chyung
Harvard Medical School
Characterization of the IDE-mediated Degradation of αß in Plasma Membranes and in Intracellular Vesicular Compartments of Cells

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

Jennifer L. Johnson
University of Arkansas for Medical Sciences
Baseline Medication Use in Dementia Patients with Disruptive Behaviors

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

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

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

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

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

Aimee M. Wright
University of Florida
The Relationship of Cognitive-impairing Medications and Cognitive Ability in Elderly Psychiatric Inpatients

2000 Scholars

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

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

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

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

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

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

1999 Scholars

Patricia M. Engle
Purdue University
Predictors of Serum Anticonvulsant Concentrations in Older Adults and Related Treatment Outcomes

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

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

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

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

Bismruta Misra
Massachusetts General Hospital
Clinical and Nonclinical Factors of Antihypertensive Polypharmacy

Andrew G. Solomon
Virginia Commonwealth University
The Effect of Older Age on Luteinizing Hormone (LH) Elimination

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

1998 Scholars

Lanning R. Baker
Idaho State University
Morphine Metabolites and Gender Differences in Pain Responses in the Elderly

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

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

James A. Edwards, Ph.D.
Virginia Commonwealth University
Analysis of Plasma Levels of Scopolamine in Healthy Elderly Volunteers

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

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

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

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

David D. Limbrick, M.S.
Virginia Commonwealth University
Characterization of Intracellular Calcium Kinetics Following Glutamate Exposure in an In vitro Model of Stroke and Aging

1997 Scholars

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

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

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

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

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

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

AFAR/Glenn Scholarships for Research in the Biology of Aging

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

2004 Scholars

Ezana M. Azene
Johns Hopkins University
Gene Therapy for Peripheral Neuropathic Pain

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

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

Eric Hau-Yun Chang
New York University
Receptor Dysfunction in Double Knock-in APP+PS1 Mice

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

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

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

William W. Ja
California Institute of Technology
Characterization of Methuselah, a Drosophila *G Protein-coupled Receptor Associated with Longevity*

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

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

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

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

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

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

Kathryn A. Moynihan
Washington University
Deacetylation of the Forkhead Transcription Factor FOX01 by Mammalian Sir2a Negatively Regulates Insulin Gene Expression in Pancreatic ß Cells

Xuan V. Nguyen
University of Kentucky
Age-dependent Alterations in Dopamine and the Nigrostriatal System in Prodynophin Knockout Mice

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

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

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

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

Adolfo Sanchez-Blanco
University of Connecticut Health Center
UCP5 Deficiency Mimics Caloric Restriction in Drosophila melanogaster

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

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

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

Brice J. Williams
Medical University of South Carolina
Altered Neurotrophin Release in Age-related Dementia

2003 Scholars

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

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

Marci L. Chew
University of Pittsburgh
Serum Anticholinergicity at Specific Muscarinic Receptor Subtypes

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

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

Mary A. Hancock
University of Utah
Comparison of the Levels of Oxidative Damage Among European Mitochondrial Haplogroups Using Phylogenetic Analysis

Jaime M. Hatcher
Emory University
Effects of Chronic Dieldrin Exposure to Organotypic Slice Cultures of Rat Striatum and Nigra

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

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

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

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

Matthew R. Hosler
University of Medicine and Dentistry of New Jersey
The Role of Oxidation in the TGF- ß Cataract Model

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

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

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

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

Tung Hoang Ngo, Ph.D.
Western University College of Medicine
Effect of Dietary Fat on Androgen-independent Prostate Tumor Growth in Scid Mice

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

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

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

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

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

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

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

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

Tiffany E. Shubert
University of North Carolina, Chapel Hill
Effects of Exercise on Angiogenesis in the Hippocampus of Mice

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

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

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

Susan E. Swanberg, J.D.
University of California, Davis
Avian Cells In Vitro: A Model System for the Study of Telomere Length Regulation and Replicative Senescence

2002 Scholars

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

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

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

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

Cheryl (Jansen) Ethen
University of Minnesota
Proteome Analysis of Retinal Proteins

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

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

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

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

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

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

Nathan K. LeBrasseur
Boston University
Neuregulin/ErbB Signaling in Skeletal Muscle: Aging & Atrophy

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

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

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

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

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

C. David Mintz
Mount Sinai School of Medicine
Investigating the Role of Presenilin-1 at the Synapse

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

Mark Rapoport
Northwestern University Medical School
Dynamic State of Mind: Does a More Plastic Cytoskeleton Prevent αß-Induced Neurogeneration in Hippocampal Neurons?

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

Rose M. Reynolds
University of Illinois at Urbana-Champaign
The Contribution of Population Heterogeneity to Mortality Plateaus

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

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

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

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

Maria L. Urso
University of Massachusetts
Muscle Function, Disuse and Antioxidants in Older Adults

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

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

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

2001 Scholars

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

Daniela-Annenelie Bota
University of Southern California
Regulation of Lon Protease Activity with Aging and Level of Oxidative Stress

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

Kevin J. Bitterman
Harvard Medical School
A Genetic Screen for Factors That Extend Lifespan Through Caloric Restriction Pathway

Todd A. Cannon
University of Washington
Involvement of WRN Protein in Atherosclerogenesis

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

Krishnan M. Dhandapani
Medical College of Georgia
Mechanisms of Neuroprotection by Estrogen and SERMs

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

Mark R. Gavin
Washington University
Understanding the Mechanism of S Phase Arrest by the Retinoblastoma Tumor Suppressor Protein

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

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

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

Eleanor A. Knopp
Yale University
The Effect of Aging on the Skeletal Response to Intermittent Treatment with PTH

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

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

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

Gail C. O'Kane
Massachusetts Institute of Technology
Exploring the Relation Between Set Shifting and Memory Retrieval

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

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

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

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

Bethany Slater
Mount Sinai School of Medicine
Alpha MSH and Aging

Christine C. Spencer
University of Georgia
The Role of Gene-gene Interactions in Aging

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

Junko Takeshita
Washington University
Oxidative Damage of DNA: Mechanisms for Carcinogenesis

Doris M. Tham
University of California, Davis
Actions of Peroxisome Proliferator-activated Receptor on Diabetic Vasculopathy

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

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

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

2000 Scholars

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

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

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

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

Richard D'Alonzo
Saint Louis University
Physical Interaction Between Osteoblastic Transcription Factors

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

Allison W. Dobson
University of South Alabama
Enhancing mtDNA Repair in Down's and Cockayne's Syndromes

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

David Gordon
University of Chicago
Investigation of the Structure of Beta Amyloid Fibrils

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

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

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

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

Justine Levin
Rockefeller University
Estrogen Effect in a Mouse Model of Alzheimer Disease

Stephen S. Lin
Washington University
Snflp Kinase and Aging in S. Cerevisiae

J. Andy Mengshol
Dartmouth University Medical School
IL-1 Regulation of Collagenase-3 in Osteoarthritis

Renee Miller
University of Rochester
Gene Expression Profiling in Parkinson's Disease

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

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

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

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

David A. Sun
Medical College of Virginia/Virginia Commonwealth University
Molecular Basis for Stroke Induced Epilepsy

Leslie P. Tao
University of California, Los Angeles
A Progesterone-dependent Mechanism to Delay Reproductive Aging

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

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

Fei-Shiuann Clarissa Yang
McGill University
Role of Telomere-associated Senescence in Wound Healing

1999 Scholars

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

Jennifer Berkeley
Emory University
Muscarinic Regulation of Amyloid Precursor Protein Metabolism

Erik D. Bernstein
Allegheny University of the Health Sciences
RAGE, Aging and Peripheral Nerve Regeneration

Wende R. Buras
Boston University School of Medicine
The Role of Threonine Phosphorylation in EGFR Dysfunction with Aging

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

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

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

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

Shawn P. Gallagher
University of Delaware
Detecting Early Glaucomatous Visual Field Loss with Neural Networks

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

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

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

Elizabeth Kensinger
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 Noway 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-ß and ABAD: A Convergence of Alzheimer's Disease and Stroke

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

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

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

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

James P. Passinault
Loyola University Medical Center
Angiogenesis and Aging

Nicholas K. Priest
University of Georgia
The Maternal Effects of Stress Resistance and Senescence

Eric S. Rawson
University of Massachusetts
Creatine Loading in Elderly Men

Haifeng Song
University of Maryland, Baltimore
Altered Responses of Aged ß Cells to CD40 Stimulation

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

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

1998 Scholars

Stuart K. Amateau
University of Maryland Baltimore
Estrogen Modulation of Glutamate Neurotransmission in the Aging Brain

Peter J. Bayley
University of California, San Diego
Serial Position Effects In Rats' Spatial Memory

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

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

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

Limor Deutsch
Boston University
Gene Transfer in the Aging Myocardial Cell

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

Dena Dubal
University of Kentucky
Neuroprotective Effects of Estrogen in Aging

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

Gerald J. Gracia
University of Florida
Host Defense Against Influenza in Aged Mice

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

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

Elizabeth T. Hsiao-Wecksler
University of California, Berkeley
Influence of Lower Extremity Joint Torques on Balance Recovery by Stepping

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

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

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

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

Malcolm A. Leissring
University of California, Irvine
Effects of Presenilin-1 on Calcium Signaling

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

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

Kevin M. Owen
Loyola University Medical Center
The Kinetics of ß-Lymphocyte Production in Aged Animals

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

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

Aileen Wiglesworth
University of Kentucky
Quantitative Assessment of Synaptic Density in Superior Parietal Lobule in Alzheimer's Disease

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

1997 Scholars

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

Kaveh Ashrafi
Washington University School of Medicine
The Role of Protein N-myristoylation in Controlling Survival of Saccharomyces cerevisiae *During Stationary Phase and Cellular Aging*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Moyosore Onifade
Washington University School of Medicine
Role of Astrocytic apoE

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

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

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

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

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

1996 Scholars

Kristin Baker
Tufts University
Neural Adaptation to Strength Training in the Elderly

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

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

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

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

Edward Huey
Stanford University
The Intracellular Effects of Stress Hormones on Neurons

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

Steven Kleopoulos
Trinity College
Manipulation of Hypothalamic Neuropeptide Y Gene Expression During Aging

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

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

Srilakshmi Maguluri
University of Medicine and Dentistry of New Jersey
The Effect of Aging on Rhythmicity

Marta Margeta
University of Illinois
G-proteins Involved in the Calcium Curent Inhibition Induced by Substance P and Neurotensin

Ewan McNay
University of Virginia
Determination of the Effects of Aging on Extracellular Brain Levels of Glucose

Brian Murphy
Washington University School of Medicine
Role of apoE and LRP in Neuronal Plasticity

Erik Naylor
Northwestern University
Novel Animal Model for Exploring the Delay of Sleep and Circadian Rhythms in the Elderly

Lemuel Newton
University of Florida College of Medicine
Enhancing Influenza Vaccine Effectiveness

Jason Ogiste
Cornell University Medical College
Redox Regulation of Signal Transduction

Andrew Rogove
State University of New York, Stony Brook
+PA Mediates Microglial Activation via a Non-proteolytic Mechanism

Sheila Scoville
Eastern Virginia Medical School
The Impact of Menopause on Primary Sensory Neurons

Xiaoming Sun
University of Connecticut Health Center
Optimal Stimulus Parameters for the Measurement of Distortion Product Otoacoustic Emissions in a Mouse Model of Presbycosis

Gina VandenLangenberg
University of Wisconsin
Relationship Between Antioxidant Supplement Use and Risk of Age-related Maculopathy

Tessa Walters
The Parkinson's Institute
Biochemical and Immunocyochemical-stereological Analysis of Mouse Nigrostriatal Degeneration after Exposure to Dithiocarbamates and MPTP

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

Amy Whitetree
University of Oklahoma Health Sciences Center
The Cell Body Response to Axotomy in Aging Motor Neurons In Vitro

Wenjun Zhang
University of South Florida
Kainate-induced Expression of Matrix Metalloproteinases in Brains from Old Rats

1995 Scholars

Harleen Ahuja
Queens College
A Genetic Approach to Understanding Molecular Mechanisms of Cell Death

Kaveh Ashrafi
Washington University
Protein N-Myristoylation and Cellular Aging

Jay Binder
Case Western Reserve University
Probing of Glucose-mediated Crosslinking Sites in 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 Tantigen 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 Neurotraphins and Their Receptors by Neurons

Alon Kahana
University of Chicago
A Genetic and Molecular Investigation of Telomere Structure and Function

Christopher Kirk
University of Michigan
Role of 14-3-3 Proteins in T-cell Activation: Affects on Aging

Leslie Pejic
University of Illinois at Chicago
Mechanisms of Neuron Aging

Michael Rogers
Kent State University
Myosin Heavy Chain 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 Toth
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 SDI-3 Gene

Van Khank Huynh
Tufts University School of Medicine
Effect of Aging on the In Vitro Formation of Haloperidol Pyridinium, a Potentially Neurotoxic Metabolite of Haloperidol

Mark Kadrofske
Michigan State University
Regulation of Expression of a Lectin in Senescent Human Fibroblasts

Soo-hyun Kim
University of Medicine and Dentistry of New Jersey Graduate School of Biomedical Science
Characterization of Growth Suppressor Gene on Human Chromosome 6

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

Xiao Su
University of Alabama at Birmingham
FAS Apoptosis and HEPH Function with Aging

Gina Uken Trebilcock
University of Arkansas
Role of Transcription Factor Nuclear Factor Kappa ß in Aging

Melissa Williams
University of Texas Health Science Center at San Antonio
Construction of a Transgene to be Used in the Production of Transgenic Mice That Overexpress Catalase

Xiaowei Xu
Bowman Gray School of Medicine at Wake Forest University
Effects of Age on IGF-signal Transduction

Richard Yu
Northwestern University Medical School
Molecular Response to Inflammation and Aging

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

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

2002 Fellows

Julie Bynum, M.D., M.P.H.
Johns Hopkins University
Analysis of Expenditures for AD Patients

Lisa Honkanen, M.D.
Weill Medical College of Cornell University
External Hip Protectors

Grace Y. Jenq, M.D.
Yale University School of Medicine
Determining Adherence to a Pain Management Model in the Nursing Home Setting

Jennifer M. Kapo, M.D.
University of Pennsylvania
How Can We Improve Services for the Elderly at the End-of-Life?

Reena Karani, M.D.
Mount Sinai School of Medicine
An Evidence-based Unfolding Case with a Linked Objective Structured Clinical Examination (OSCE)

Victor J. Legner, M.D.
University of Washington School of Medicine
The Importance of Medical Comorbidity and Preoperative Functional Status in Predicting Functional Decline in Older Adults Undergoing Nonemergent Surgery

Cari R. Levy, M.D.
University of Colorado Health Sciences Center
Hospital versus Nursing Home: Determinants of Site and Cost of Death Among Nursing Home Residents

Robert J. Pignolo, M.D., Ph.D.
University of Pennsylvania School of Medicine
The GNAS1 Gene as a Regulator of Osteoblast Differentiation and Molecular Target for the Stimulation of Bone Formation

James L. Rudolph, M.D.
Harvard Medical School
Relationship of Intraoperative Trans Cranial Doppler (TCD) Output to Delirium in Patients Undergoing Coronary Artery Bypass Graft (CABG) Surgery

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

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

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

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

2001 Fellows

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2000 Fellows

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1999 Fellows

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

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

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

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

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

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

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

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

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

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

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

Medical Student Summer Research Training in Aging Program

(formerly known as the Medical Student Geriatrics Scholars Program)

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

2005 Scholars

Alan Bengtzen
Emory University

Ariel Bulua
Mount Sinai School of Medicine

Olatubosun Chinwokwu
Saint Louis University

Neela Dasgupta
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

Ben Harris
Mount Sinai School of Medicine

John Hopkins
University of North Carolina at Chapel Hill

David Horowitz
Johns Hopkins University School of Medicine

Brian Houston
Emory University

Kathleen Khong
Northwestern Feinberg School of Medicine

Sandy Liang
Mount Sinai School of Medicine

Kyauna Miller
Case Western Reserve University

Margaret Moscato
Emory University

Anjali Nigalaye
University of Chicago

Shantanu Nundy
Johns Hopkins University School of Medicine

Theodore Pasquali
University of California, Los Angeles

Laura Raducha-Grace
University of Pittsburgh

Simha Ravven
Tulane University School of Medicine

Brandon Roberts
Case Western Reserve University

Shawn Rosen
University of Rochester School of Medicine

Alexandra Shaw
Mount Sinai School of Medicine

Megan Skibitsky
University of California, Los Angeles

Lon Steinberg
Albert Einstein College of Medicine

Malini Sur
Mount Sinai School of Medicine

Ryan Takenaga
Johns Hopkins University School of Medicine

Ezra Teitelbaum
Mount Sinai School of Medicine

Christie Tung
Case Western Reserve University

Brant Ullery
Cornell University

Ryan Ungaro
Mount Sinai School of Medicine

Deborah Weener
University of Michigan

Daniel Wei
Case Western Reserve University

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 Zapeda
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
Cornell University

Russell Berger
Mount Sinai School of Medicine

Gwen Bernacki
State University of New York, Buffalo

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

Brittany N. Bohinc
Northeastern Ohio Universities College of Medicine

Yasmin Bootwala
Baylor College of Medicine

Catherine Buell
Drew University/University of California, Los Angeles

Julie Burke
Saint Louis University School of Medicine

Joel Escobedo
University of Michigan

Anne E. Finefrock
University of North Carolina at Chapel Hill

Maximilian Gomez-Trochez
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

Melissa H. Kujawski
Mount Sinai School of Medicine

Margaret W. Leung
University of California, San Diego

Cathy Liu
Emory University

Jeffrey Loh
Cornell University

Aleicia R. Mack
Oklahoma State University

Kristin K. Martin
Oklahoma State University

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

Matthew Mei
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

Hasra K. Phillip
State University of New York, Upstate Medical University

Lhasa Ray
Albert Einstein College of Medicine

Donna J. Roybal
University of California, Los Angeles

Sima Shah
Case Western Reserve University

Marc P. Simpao
University of Texas Health Science Center at San Antonio

Anthony N. Sireci
Johns Hopkins University

Risa Small
Mount Sinai School of Medicine

Amir Soumekh
Mount Sinai School of Medicine

Hana Takusagawa
Mount Sinai School of Medicine

Joseph Tang
Mount Sinai School of Medicine

Sarah K. Tighe
Johns Hopkins University

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

Veronica Vasquez
Cornell University

Giorgio Veneziano
Case Western Reserve University

Pauline Wu
University of Medicine and Dentistry of New Jersey School of Osteopathic Medicine

Cong-Zhi Cecile Zhao
Medical College of Wisconsin

2003 Scholars

Crystal L. Adams
University of Texas Health Science Center at San Antonio

April Alford
Baylor College of Medicine

Jonathan Austrian
Cornell University

Lisa M. Bowe
Ohio State University

Daniel J. Burdick
Johns Hopkins University

Michelle M. Cabrera
University of Maryland School of Medicine

Shannon M. Campbell
Ohio University College of Osteopathic Medicine

Connie Chang
Cornell University

Joseph C. Chiang
Mount Sinai School of Medicine

Anne K. Chung
University of Arizona

Jarrod Collings
University of North Texas Health Science Center

Luis G. Cruz
University of Hawaii

Kirsten Dacal
University of Pittsburgh

Dilsher S. Dhoot
Chicago Medical School

Kerry A. Donegan
Mount Sinai School of Medicine

Margaret Donlon
University of Rochester

Steven D'Sa
University of Michigan

Rachel Fogel
Johns Hopkins University

Michael C. Forney
Case Western Reserve University

Katherine Freeman
Northeastern Ohio Universities College of Medicine

Ewina Fung
University of California, Los Angeles

Matthew R. Garrett
Case Western Reserve University

Anne D. Halli
University of Alabama, Birmingham

Mary J. Hessert
University of New England College of Osteopathic Medicine

Christopher A. Jones
Jefferson Medical College

Beth H. Justice
Emory University

Christin Knowlton
State University of New York, Stony Brook

Thomas A. Leeson
University of New England College of Osteopathic Medicine

Serena Lo
University of Hawaii

Monica G. Majmundar
Emory University

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University of Utah

Ruth Graupera
Johns Hopkins University

Jennifer Grot
Saint Louis University

Lucy Guerra
Mount Sinai School of Medicine

Susan Hall
Loma Linda University

Sara Howe
New York Medical College

Jordan Karp
University of Pittsburgh

Pamela Kirschner
Harvard University

Alayne Kulvicki Markland
University of North Texas

George Kunz
University of Michigan

Siavash Kurdistani
Harvard University

Timothy Kuwada
University of Connecticut

Alpa Laheri
Johns Hopkins University

Timothy Lewis
Wayne State University

Hallie Lightdale
Mount Sinai Medical Center

Jerry Lin
Harvard Medical School

Elizabeth Lindenberger
Stanford University

Shaden Marzouk
Saint Louis University

Maritess Mauricio
Stanford University

Lisa McAllister
Ohio University College of Medicine

R. Steven Meadows
Wake Forest University School of Medicine

Ellen Marie Mongan
Columbia University

Anna Monias
Mount Sinai School of Medicine

Brian Mulhall
Saint Louis University

Christopher Ng
University of California, Los Angeles

Philip Nivatpumin
University of California, Los Angeles

Ghadir Oloumi
Mount Sinai School of Medicine

Elizabeth Rashley
University of South Carolina

Katherine Shiue
Washington University

Crystal Simpson
University of Texas Health Science Center at San Antonio

Nitin Soorya
Saint Louis University

Jeanne Thompson
University of Pittsburgh

Raymond Thornton
University of Pittsburgh

Thao Truong
Harvard University

Frances Valdes
Johns Hopkins University

Brinda Vora
Jefferson Medical College

Neal Waechter
University of Michigan

Herschel Wallen
University of Michigan

Kathleen Walsh
University of Des Moines College of Osteopathic Medicine

Katie Ward
Saint Louis University

Paul Wise
Johns Hopkins University

Danielle Woodall
State University of New York, Buffalo

Edward Yian
University of Michigan

Marcia Zuckerman
Harvard University

1994 Scholars

Preetinder Brar
Harvard University

Julie Bynum
Johns Hopkins University

Kimberly Cingle
Case Western Reserve University

Judith Cymerman
University of Southern California

Laura B. Dunn
University of California, San Francisco

Jesse Eisler
Mount Sinai School of Medicine

William Garner
New York Medical College

Ceri Hadda
Mount Sinai School of Medicine

Argye Hillis
Johns Hopkins University

Mwango Kashoki
Johns Hopkins University

Hai Kenney
Ohio University College of Medicine

Sally Lee
University of North Texas

Moshe Lewis
Mount Sinai School of Medicine

Mehran Mandegar
University of Rochester

R. Steven Meadows
Wake Forest University

Marc Mendes
George Washington University

Lisa Moran
Saint Louis University

Christine Murphy
University of Minnesota

Thomas Murray
University of Connecticut

Jeff Odiet
Harvard Medical School

Medda Rauhut
Baylor College of Medicine

Samantha Segal
University of Connecticut

Lydia Shajenko
University of Connecticut

Jeffrey Suchniak
Bowman Gray School of Medicine at Wake Forest University

Joyce Tang
Stanford University

Susan Thomas
Texas A&M University

Chris Tsuneishi
Chicago Medical School

Cordelia Uddoh
University of Pennsylvania

Kimberly Vesco
University of California, San Diego

Richard Wong
New York University Medical Center

Rhonda Yantiss
Harvard Medical School

AFAR-Ohio Affiliate Medical Students

2005 Scholars

Jeremy Broadnax
Case Western Reserve University

Mita Deoras
Northeastern Ohio Universities College of Medicine

Paul Gunn
Case Western Reserve University

Maxwell Hill
University of Cincinnati College of Medicine

Jessica Holmes
Case Western Reserve University

Evan Howe
Case Western Reserve University

Christine Hung
Case Western Reserve University

Alexander Larson
Ohio State University College of Medicine

Ovidiu Marina
Case Western Reserve University

Eric McLoney
Ohio State University College of Medicine & Public Health

Leland Metheny
Case Western Reserve University

Jeanie Wang
Northeastern Ohio Universities

Aimee Wing
Case Western Reserve University

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

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

2001 Recipients

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

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

2000 Recipient

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

AFAR/Hartford Gero-Physician-Scientist Training Program

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

1993 Fellows in Geriatric Gynecology

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

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

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

1992 Fellows in Anesthesiology

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

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

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

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

2001 Recipients

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

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

AFAR Milestones

1981

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

1982

- The first AFAR Research Grants are awarded.
- First Irving S. Wright Award given to Nathan W. Shock, Ph.D.

1984

- First AFAR state affiliate formed in Ohio.

1986

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

1987

- George E. Doty is elected Chair of the Board of Directors.
- The Merck Company Foundation sponsors new fellowships in geriatric clinical pharmacology.

1988

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

1991

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

1993

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

1994

- AFAR receives $14 million grant from The John A. Hartford Foundation, The Atlantic Philanthropies and The Commonwealth Fund to administer the Paul Beeson Physician Faculty Scholars in Aging Research Program, the nation's largest non-governmental award program in academic geriatrics and aging research.
- AFAR and The John A. Hartford Foundation collaborate to start the Hartford/AFAR Medical Student Geriatric Scholars Program.
- The Glenn Foundation for Medical Research funds new Glenn/AFAR Student Scholarship Program for Research in the Biology of Aging.
- Annual AFAR Research Grants top $1 million.

1996

- AFAR launches four-part media briefing series on older women's health with support from the Bristol-Myers Squibb Foundation.
- AFAR develops a website, www.afar.org.

1997

- AFAR launches Dorothy Dillon Eweson Lecture Series to educate medical specialists on advances in aging research within their own fields.
- Diane Nixon names grant in memory of her mother, Nan Allen Nixon.
- The John A. Hartford Foundation funds AFAR to establish a Coordinating Center for the Hartford Foundation's Centers of Excellence Initiative.
- AFAR launches Lifelong, a newsletter for older patients published in Geriatrics magazine.
- The Merck Company Foundation and AFAR create the Merck/AFAR Research Scholarships in Geriatric Pharmacology.
- First "Friends of AFAR" dinner is held in New York City.
- AFAR goes global with the first International Conference on Biomedical Aspects of Aging Research held in Venice, Italy.
- Sponsors of the Paul Beeson Physician Faculty Scholars in Aging Program commit additional $14 million to fund 31 new Scholars.

1998

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

1999

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

2000

- AFAR and the Institute for the Study of Aging create the AFAR/ISOA Program for Drug Discovery in Cognitive Decline and Alzheimer's Disease.
- The Fan Fox and Leslie R. Samuels Foundation adds support for local medical students through the AFAR/Samuels Foundation Medical Student Geriatric Scholars Program.
- AFAR launches Infoaging.org, a consumer information website.
- The Starr Foundation joins the team of Beeson Program sponsors.

2001

- AFAR and the Glenn Foundation for Medical Research create awards program for post-doctoral fellows.
- Foundation for Fighting Blindness and AFAR establish a joint program for career development awards in support of research on age-related macular degeneration.

2002

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

- The William Randolph Hearst Foundation contributes to the AFAR Research Grant Program.

2003

- AFAR launches upstate affiliate program in Rochester, NY, funded by the Starr Foundation.

- The Ellison Medical Foundation and AFAR team up to support senior post-doctoral fellows.

- AFAR and the Merck Institute on Aging and Health create HealthCompass.org.

2004

- Diana Jacobs Kalman elected Chair of the Board of Directors.

- AFAR launches southeast affiliate at Emory University in Atlanta, GA.

- AFAR celebrates the 10th anniversary of the Beeson Program with the added support of the National Institute on Aging and the new name of the Paul B. Beeson Career Development Awards in Aging Research.

- The Pfizer/AFAR Innovations in Aging Research Award is created.

- The William Randolph Hearst Foundation adds support to the Medical Student Geriatric Scholars Program.

- Terrapin Society created.

2005

- The Glenn Foundation and AFAR collaborate to create the Glenn/AFAR Breakthroughs in Gerontology (BIG) Award.

- AFAR, The John A. Hartford Foundation and other foundations partner with the NIA on the Medical Student Geriatric Program, renamed the Medical Student Summer Research Training in Aging Program. Foundations include The William Randolph Hearst Foundation, The Cleveland Foundation, Cardinal Health Foundation, Lillian R. Gleitsman Foundation, Community Health Foundation of Western & Central New York, The New York Community Trust and an anonymous donor.

- The Novartis Foundation joins with AFAR to establish the Aging Well Initiative.

2006

- The Julie Martin Mid-Career Award in Aging Research is created by the Ellison Medical Foundation.

- The Fannie E. Rippel Foundation establishes the Fannie E. Rippel Foundation/AFAR New Investigator Awards on Gender Differences in Cardiovascular Disease in Older Adults.

Major Supporters of the 2005 Grant Programs

The AFAR Board of Directors

Anonymous Donor

The Atlantic Philanthropies

The Bedminster Fund

Cardinal Health Foundation

The Clarence and Anne Dillon Dunwalke Trust

The Cleveland Foundation

Community Health Foundation of Western & Central New York

Eisai Inc

The Ellison Medical Foundation

Lillian R. Gleitsman Foundation

The Glenn Foundation for Medical Research

The Partners of Goldman Sachs & Company

The John A. Hartford Foundation

William Randolph Hearst Foundation

Diana J. and C. A. Kalman

F. M. Kirby Foundation, Inc.

Merck Company Foundation

National Institute on Aging

The New York Community Trust

Diane Nixon

Pfizer Inc

The Richard and Hinda Rosenthal Foundation

Joseph L. K. Snyder Trust

The Starr Foundation

The Irving S. Wright Endowment

American Federation for Aging Research

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