

Section I. Description of Center

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Focus of OAIC at Yale

The mission of the Yale Older Americans Independence Center (OAIC) is to provide intellectual leadership and innovation for aging research that is directed at enhancing the independence of older persons. The unifying theme of the Yale OAIC is the investigation of multifactorial geriatric health conditions, encompassing single conditions resulting from multiple contributing factors or affecting multiple outcome domains and multiple conditions occurring simultaneously. The conceptual underpinning is that geriatric health conditions are determined by the co-occurrence of multiple predisposing and precipitating factors. These conditions and factors, in turn, affect a range of health outcomes. The predisposing factors may be at the genetic, molecular, physiologic, impairment, disease, or socio-demographic level, while the precipitating factors may be behavioral, environmental, social, medical, or psychological. As a related focus, the Yale OAIC also aims to advance the science of clinical decision making in the face of tradeoffs and multiple competing outcomes. This includes developing strategies to elicit older persons' health outcome priorities.

The aims of the Yale OAIC are to:

- 1) foster the career development of future academic leaders, from multiple disciplines, in aging research;
- 2) train investigators, biostatisticians and other methodologists in the skills necessary to design, conduct, analyze, and disseminate findings from studies of multifactorial geriatric health conditions;
- 3) develop and disseminate design and analytic techniques for conducting studies of multifactorial geriatric health conditions;
- 4) develop strategies for recruiting and retaining a broad spectrum of older persons, including minorities, into studies of multifactorial geriatric health conditions;
- 5) investigate the causative mechanisms of, and develop and test effective treatments for, geriatric health conditions from a multifactorial research perspective;
- 6) develop strategies to enhance clinical decision making in the setting of multiple health conditions;
- 7) encourage and facilitate interdisciplinary research (basic, translational and clinical) that connects to our focus on multifactorial geriatric health conditions;
- 8) develop and implement strategies that will facilitate the translation of OAIC research into practice and policy.

The disciplines and interdisciplinary collaborations represented in the Yale Pepper Center include:

Analytical Sciences Center	Geriatrics	Oncology
Behavioral Sciences	Gerontology	Ophthalmology
Biostatistics	Health Policy	Outcomes Research and Evaluation Center
Biotechnology	Hematology	Orthopaedics and Rehabilitation
Cardiology	Human Translational Immunology	Pathology
Cellular and Molecular Physiology	Imaging Core	Pharmacology
Chemistry	Immunobiology	Physical Therapy
Clinical and Translational Science	Infectious Disease	Physiology and Metabolism
Comparative Medicine	Internal Medicine	Primary Care
Dermatology	Medical Informatics	Psychology
Diabetes Research Center	Molecular, Cellular and Developmental Biology	Psychiatry
Economics	Mouse Research Pathology Core	Public Health
Endocrinology	Nephrology	Pulmonary/Critical Care
Epidemiology	Neurobiology	Rheumatology
Gastroenterology	Neurology	Sleep Medicine
General Internal Medicine	Neuropsychology	Sociology
Genetics	Neurosurgery	Statistical Genomics and Proteomics
	Nursing	Surgery
	Obstetrics and Gynecology	Urogynecology
	Occupational Therapy	Vascular Biology and Transplantation

A1. LEADERSHIP AND ADMINISTRATIVE CORE

Thomas M. Gill, MD, Leader

Terri R. Fried, MD, Co-Leader

Joanne M. McGloin, MDiv, MS, MBA, Center Administrator

Denise Acampora, MPH, Center Co-Administrator

Peter A. Charpentier, MPH, Associate Leader

The overarching objective of the Leadership and Administrative Core (LAC) is to advance the field of multifactorial geriatric health condition research. The LAC, under the PI, is ultimately responsible for strategic planning, organization, administrative operations and evaluation of the OAIC research and training program. A special effort is devoted to ensure the cohesion of the Center and maintenance of an interdisciplinary and translational research focus on the common research theme, which is "the investigation of multifactorial geriatric health conditions". The key LAC tasks are achieved by the Core Leader, Co-Leader, Administrator and three committees: the Executive Committee, the Internal Advisory Committee, and the External Advisory Committee.

The activities and responsibilities of the LAC are to:

- 1) oversee the coordination, integration, and administration of all aspects of the Yale OAIC, including the utilization of core resources, with other research and training programs at Yale, and foster collaborations that will accomplish the OAIC goals;
- 2) ensure the conduct of academically productive, innovative, high impact, and clinically safe research by Pepper Scholars, Resource Cores, Pilot/Exploratory Studies (PESs), and External Projects;
- 3) ensure the independent review and oversight of OAIC research and the training of Pepper Scholars;
- 4) foster the career development of junior faculty from multiple disciplines into independent investigators and academic leaders in aging research;
- 5) recruit and encourage outstanding junior and senior faculty to focus their research on aging, particularly multifactorial geriatric health conditions, with an emphasis on translation between basic and clinical research;
- 6) identify and facilitate productive collaborations with other institutions and OAICs;
- 7) monitor university, government and fiscal matters, ensure the preparation of necessary progress reports and administrative documents relating to the award, and collaborate with the NIA project office and Coordinating Center on OAIC activities.

Taken together, the LAC provides support for planning, organizational, evaluation, and administrative activities relating to the other Cores and to the OAIC as a whole. The LAC is responsible for monitoring, stimulating, sustaining, evaluating, and reporting progress toward the overall goals of the OAIC.

A2. PILOT/EXPLORATORY STUDIES CORE (PESC)

Albert Shaw, MD, PhD, Core Leader

Mary E. Tinetti, MD, Co-Leader

Denise Acampora, MPH, Co- Leader

The primary goal of the Pilot/Exploratory Studies Core (PESC) is to facilitate the development of innovative and rigorous research studies that will enhance our understanding of the pathogenesis, etiology, diagnosis, prevention, and management of multifactorial geriatric health conditions, leading ultimately to the development of efficacious and cost-effective interventions to increase or maintain the independence of older Americans.

To achieve the goals stated above, the specific aims are to:

- 1) solicit and select the most meritorious research proposals for PESC funding;
- 2) provide investigators of Pilot / Exploratory Studies (PESs) with access to resources from the other OAIC Cores;
- 3) identify potential opportunities for co-sponsorship of PESs;
- 4) identify potential opportunities for collaboration among PESC investigators;
- 5) monitor the progress of PESs;
- 6) provide assistance so that the PESs can be successfully developed into independently funded grant applications;
- 7) ensure the safety and protection of human subjects and vertebrate animals enrolled in PESs.

Priority for PESC funding will be given to junior investigators as well as to accomplished mid-career and senior investigators who wish to redirect or expand their research to the study of multifactorial geriatric health conditions. In addition to traditional one- or two-year PESs, a new Expedited Pilot Program (EXPI) funds small grants capped at a maximum of \$5000 and awarded within 4 weeks of application. Priority for these grants will be given to junior investigators and are intended for research activities in which a rapid infusion of a relatively small amount of funds will facilitate a successful extramural grant application. These two PESC grant mechanisms will provide crucial support and access to the research infrastructure provided by the OAIC Operations and Biostatistics Cores, facilitating future external grant support that will advance our understanding of multifactorial geriatric health conditions.

A3. RESEARCH CAREER DEVELOPMENT CORE (RCDC)

Terri Fried, MD, Core Leader
Albert Shaw, MD, PhD, Co-Leader
Denise Acampora, MPH, Co-Leader

The overall goal of the Research Career Development Core (RCDC) is to identify highly promising early-stage investigators (junior faculty) and to provide support promoting their development as independent investigators and leaders in aging research. The RCDC seeks to provide these investigators, designated as “Pepper Scholars”, with the knowledge and skills to conduct biological, translational, and clinical studies of multifactorial geriatric health conditions and to obtain subsequent funding from a broad range of sources. The outcomes and career advancement goals for Pepper Scholars include: 1) publication of research results in high-impact journals; 2) success in obtaining independent funding, both to support further career development and to support specific projects; 3) development of leadership skills necessary to manage research teams and to become successful mentors themselves.

To achieve the goals stated above, the specific aims are to:

- 1) identify highly promising junior faculty with a strong interest in aging research as Pepper Scholars, with priority given to faculty whose research focuses on multifactorial geriatric health conditions;
- 2) promote the development of these Pepper Scholars as independent investigators through the provision of salary, project, infrastructure/technical, and other career development support;
- 3) provide Pepper Scholars with priority access to the Resource Cores’ expertise and services for the design, conduct, and analysis of studies addressing multifactorial geriatric health conditions;
- 4) provide mentorship in aging to Pepper Scholars selected from disciplines outside of geriatrics;
- 5) provide oversight of research and career development progress for Pepper Scholars and to provide support for subsequent grant development;
- 6) identify a group of junior faculty affiliates who receive more limited support in order to promote their development as potential future Pepper Scholars and to support additional career development and research applications;
- 7) provide opportunities for participation in local and national research and career development workshops and seminars with a focus on aging research and in relevant networking and advocacy initiatives.

The RCDC works with the Leaders of the other Cores to identify the necessary resources (e.g. research assistants, biostatisticians, etc.) for studies being conducted by RCDC awardees, to facilitate and ensure that the awardees’ studies adhere to the OAIC’s multifactorial focus, and to monitor the progress of these studies. During the course of the studies, the RCDC, together with the LAC and Resource Cores, assists junior investigators to develop their research into independently funded grant applications.

A4. BIOSTATISTICS CORE

Heather G. Allore, Ph.D., M.S., Core Leader

Peter H. Van Ness, Ph.D., MPH, Core Co-Leader

The overarching goals of the Biostatistics Core (BC) are to provide design and analytical services to investigators conducting studies of multifactorial geriatric health conditions; to develop and disseminate new design and analytical techniques for conducting studies with older persons; and to train a cadre of clinical investigators, biostatisticians, and epidemiologists in skills necessary to design, conduct, and analyze gerontologic studies. The BC provides state-of-the-art research design and biostatistical expertise for the Yale OAIC with the following specific aims.

- 1) To collaborate with Pepper Scholars, Pilot and Exploratory Studies Core investigators, Operations Core colleagues, and investigators of External Projects, to achieve the mission of the Yale OAIC in promoting the understanding and treatment of multifactorial geriatric health conditions.
- 2) To develop new and sound methods that address the challenges of designing and analyzing studies in basic, translational, and clinical geriatric/aging research, with special emphasis on introducing helpful statistical methods from other disciplines.
- 3) To train the next generation of geriatric statisticians, epidemiologists, and junior investigators in Gerontologic Biostatistics research methods specific to studies of multifactorial geriatric health conditions, e.g., accounting for multicomponent interventions addressing multiple health outcomes, analyzing longitudinal data in ways that differentiate pathological and non-pathological changes in health over time, and handling missing data due to death.

A5. OPERATIONS CORE

Vincent J. Quagliarello, MD Core Leader
Peter A. Charpentier, MPH, Core Co-Leader
Joanne M. McGloin, MDiv, MS, MBA, Co-Leader

The overall goal of the Yale OAIC Operations Core (OC) is to provide operational methods, staff, resources, and expertise necessary to ensure the efficient and successful completion of the full range of research projects (e.g., observational, interventional, basic/translational) focused on multifactorial geriatric health conditions. As a result, the OC will enhance the scientific productivity of OAIC research and facilitate its overall objectives. The Operations Core for the OAIC provides the seamless integration of Field personnel tasks with Data Management/Informatics operations. This streamlined organization optimizes resources, increases efficiency and implementation of clinical and translational research, and facilitates integration of data collection and data management efforts.

Collaborating with all Yale OAIC Cores, the specific aims to achieve the Operations Core goal are to:

- 1) provide personnel for recruitment and retention of diverse research participants, and comprehensive data management systems, to support OAIC External Projects;
- 2) provide consulting support for operational aspects of proposal preparation;
- 3) provide training of investigators and study staff regarding operational tasks;
- 4) develop, test, and implement new OC methods;
- 5) collaborate with RCDC, PESC, and Biostatistics Cores to facilitate coordinated strategies to develop, implement, and monitor the conduct of Yale OAIC-related studies;
- 6) provide support for the design and conduct of a novel OC Development Projects.

OAIC Research Resource Core Development Studies (2002-2015)

- a. *Developing the Mechanism(s) for Action for DRIVER and PREHAB* - Biostatistics Core
Peter N Peduzzi, PhD, Professor of Public Health (Biostatistics)
- b. *Methodology Development for Longitudinal Studies of Precipitating Events* - Biostatistics Core
Joel A Dubin, PhD, Associate Professor of Statistics and of Actuarial Science, University of Waterloo, Canada
- c. *Geriatrics Research Instrument Library (GRIL)* - Data Management and Informatics Core
Cynthia A Brandt, MD, MPH, Professor of Emergency Medicine and Anesthesiology (Medical Informatics)
- d. *Promoting Research Participation among Black and Hispanic Older Adults* - Field Core
Holly G Prigerson, PhD, Irving Sherwood Wright Professor of Geriatrics and Professor of Sociology in Medicine, Weill Cornell Medical College
- e. *Analysis Methods for Spatial Factors on Geriatric Health* - Biostatistics Core
Theodore Holford PhD, Susan Dwight Bliss Professor of Public Health (Biostatistics) and of Statistics
- f. *Ordinal Regression Models for Aging Research* – Biostatistics Core
Peter Van Ness, Ph.D., MPH, Senior Research Scientist, Medicine (Geriatrics) and Lecturer in Epidemiology (Chronic Diseases)
- g. *Phenotype and Genotype Diversity in Age-Related Macular Degeneration* – Biostatistics Core
Josephine Hoh, PhD, Associate Professor of Epidemiology and of Ophthalmology and Visual Science
- h. *Eliciting Older Persons' Preferences among Competing Outcomes* – Field Core
Terri Fried, MD, Professor of Medicine (Geriatrics)
- i. *Study Designs and Analytic Methods for Pilot Projects with Small Sample Sizes*- Biostatistics Core
Heather Allore PhD, MS, Professor of Medicine (Geriatrics) and of Public Health (Biostatistics)
- j. *The Pepper Informatics, Revision 2 Implementation Project* – Data Management and Informatics and Field Cores
Peter Charpentier, MPH, Director of Data Management and Informatics, Yale Program on Aging

- k. *Uncovering the Multifactorial Nature of AMD Pathogenesis with Systems Biology* - Biostatistics Core
Hongyu Zhao, PhD, Ira V. Hiscock Professor of Public Health (Biostatistics) and of Genetics and of Statistics

- l. *Cognitive Impairment in the ICU: Bayesian Joint Models of the Time-Dependent Confounding between Multiple Medications and Manifestations of Delirium* - Biostatistics Core
Terrence Murphy, PhD, Assistant Professor of Medicine (Geriatrics)

- m. *Adverse Event Monitoring and Reporting among Older Adults Participating in Multifactorial Intervention Trials* - Operations Core
Manisha Juthani-Mehta, MD, Associate Professor of Medicine (Infectious Diseases)

- n. *A real-world quasi-experimental investigation of haloperidol effectiveness in treating delirious older medical patients under intensive care* – Biostatistics Core
Ling Han, MD, PhD, Senior Research Scientist, Internal Medicine (Geriatrics)

B2. OAIC Research Career Development Awardees (area of interest) (2002-2016)

- a. Sidney T Bogardus Jr, MD (strategies to improve goal setting for older persons)
- b. Joel A Dubin, PhD (new methodologies for studying geriatric health conditions)
- c. William T Gallo, PhD (geriatric health conditions from the perspective of a health economist)
- d. Cary P Gross, MD (barriers to participation of older cancer patients in clinical trials)
- e. Margaret A Pisani, MD, MPH (older patients in the intensive care unit setting)
- f. Karyn Frick, PhD (environmental enrichment as mnemonic enhancer for aging male and female mice)
- g. Joseph Agostini, MD (benefits and harms of total medication use)
- h. Albert Shaw, MD, PhD (alterations in toll-like receptor signaling in older adults)
- i. JoAnn Foody, MD (tradeoffs between clinical outcomes in older persons with multiple morbidities)
- j. Daniel Goldstein, MD (mechanisms of impaired immunity in aging)
- k. Julie Ann Sosa, MD (effects of surgery on older patients with primary hyperparathyroidism)
- l. Carlos Fragoso, MD (pulmonary function and sleep)
- m. Lisa Barry, PhD (effect of depression on disability burden over time)
- n. Sarwat Chaudhry, MD (heart failure as a multifactorial geriatric syndrome)
- o. Manisha Juthani-Mehta, MD (UTI in nursing home patients)
- p. Arthur Simen, MD, PhD (multifactorial risk for late life depression)
- q. Leora Horwitz, PhD (heart failure readmissions in high and low performing hospitals)
- r. Stephanie Halene, MD (modeling myelodysplasia in aging adults)
- s. Sandy Chang, MD, MHS (trajectories of cognitive function and their impact on hospitalizations, functional disability, and death in older adults with COPD)
- t. Robert Pietrzak, PhD, MPH (post disaster psychological adaptation in older persons)

- u. Praveen Mannam, MD (MKK3 as a mediator of sepsis and lung injury in the elderly)
- v. Elizabeth Erektion, MD, MPH (frailty and functional status of older women seeking treatment for urinary incontinence)
- w. Joan Monin, PhD (the health effects of older persons' relationships and caregiving)
- x. Kasia Lipska, MD (hospitalizations for diabetes complications)
- y. Raimund Herzog, MD (energy substrates and molecules associated with health and disease).
- z. Terrence Murphy, PhD (cognitive impairment in the ICU)
- aa. Melissa Knauert, MD, PhD (sleep and delirium in the ICU)
- bb. Daniel Weinberger, PhD (pneumococcal vaccine impact in geriatric populations)
- cc. Heidi Zapata, MD, PhD (age and HIV infection)
- dd. Lauren Ferrante, MD (critical illness, disability, and vulnerability)
- ee. Andrew Cohen, MD (guardianship and medical decision making for the unbefriended elderly)
- ff. Xi Chen, PhD (social pensions, health, and informal elderly care)

B3. Other Research Activities

a. Other Completed OAIC Studies

- IS “Home-based Hip Fracture Intervention Project”
Mary E. Tinetti, M.D. (Principal Investigator)
1992-1997
- IDS-1 “Trial of a PREHABilitation Strategy for At-Risk Elders “
Thomas M. Gill, M.D. (Principal Investigator)
1997-2003
- IDS-2 “Driver-Related Rehabilitative Intervention for the Elderly”
Richard Marottoli, M.D., M.P.H. (Principal Investigator)
1997-2004
- IDS-3 “Mechanisms of Insulin Resistance in Aging”
Gerald I. Shulman, M.D., Ph.D. (Principal Investigator)
Loretta DiPietro, Ph.D.
1997-2002

b. Completed Supplemental Awards

“GenTrack Data Systems”
Peter Charpentier, MPH

“Cardiac Stress Testing to Screen Prior to Exercise Training”
Thomas M. Gill, MD

“Pepper Informatics”
Peter Charpentier, MPH

“Development of Experimental Designs and Analytic Methods for Multifactorial Interventions”
Heather Allore, PhD, MS

“Developing a National Mouse Mammary Tumor Tissue Array Resource”
Caroline Zeiss, PhD, BVSc

“Gerontological Research, Algorithms, and Statistical Programs (GRASP)”
Heather Allore, PhD, MS

C. Pilot Studies

Year 01 (1992-1993)

Psychosocial Intervention in Elderly Stroke Patients: Screening and Assessment

Thomas Glass, PhD

Professor of Epidemiology – Johns Hopkins University

Identifying Precipitating Factors for Delirium in Hospitalized Elderly Patients

Sharon Inouye, MD, MPH

Professor of Medicine – Harvard University

Congestive Heart Failure in the Elderly: Role of Left Ventricular Function on Prognosis and Management

Harlan Krumholz, MD, MSc

Harold H. Hines Professor of Medicine (Cardiology) and Professor of Investigative Medicine and of Public Health (Health Policy), Yale University

Year 02 (1993-1994)

Psychosocial Intervention in Elderly Stroke Patients: Intervention

Thomas Glass, PhD

Professor of Epidemiology – Johns Hopkins University

Prevention of Delirium in Hospitalized Elderly Patients

Sharon Inouye, MD, MPH

Professor of Medicine, Harvard University

Study of Older Driver Assessment Instrument

Richard Marottoli, MD, MPH

Professor of Medicine (Geriatrics), Yale University

Predicting Differential Patterns of Response to Challenge

Teresa Seeman, PhD

Professor of Medicine and Epidemiology – UCLA

Year 03 (1994-1995)

Dissemination of Fall Reduction Information

Dorothy Baker, PhD, RN-C

Senior Research Scientist (Geriatrics), Yale University

Depression in Elderly Medical Homecare Patients

Martha Bruce, PhD, MPH

Professor of Psychiatry and of Community and Family Medicine and of The Dartmouth Institute, Geisel School of Medicine, Dartmouth College

Cumulative Call Back Rate in Mammography

Joann Elmore, MD, MPH

Professor of Medicine - U. of Washington

The Sociodemographic Factors Associated with Medical Expenditures Prior to Death

Colleen Grogan, PhD

Professor of Social Service Administration – U. of Chicago

Functional MRI Studies of Motor Recovery from Stroke
Dana Leifer, MD
Associate Professor of Neurology - Weill Cornell Medical College

Cognitive Function, Self Efficacy Beliefs and Behavioral Function in the Elderly
Emily Richardson, PhD
Assistant Research Professor Psychology - U. of Colorado

Response to Challenge as a Mechanism of Successful Aging
Teresa Seeman, PhD
Professor of Medicine and Epidemiology – UCLA
and
Loretta DiPietro, PhD
Professor and Chair of Exercise Science, George Washington University

Year 04 (1995-1996)

Measuring Satisfaction with Medical Services for Elderly Veterans with Comorbid Medical and Psychiatric Illnesses
Benjamin Druss, MD, MPH
Professor of Health Policy and Management – Emory University

Factors Associated with Short-term Mortality and Site of Death of Older Homecare Patients.
Terri Fried, MD
Professor of Medicine (Geriatrics), Yale University

Predictors of Recovery of ADL Function among Disabled Older Persons Living in the Community
Thomas Gill, MD
Professor of Medicine (Geriatrics) and of Investigative Medicine and of Epidemiology and Public Health, Yale University

Analysis of Age-Related Changes in Human Osteoblasts
Mark Horowitz, PhD
Professor of Orthopaedics and Rehabilitation, Yale University

Stressors as Risk Factors for Late Onset Major Depression
Carolyn Mazure, MD
Professor of Psychiatry and of Psychology, Yale University

Studies on the Relationship Between Lactational Vasometer Episodes and Those of Menopause
Steven Palter, MD
Medical and Scientific Director, Gold Coast IVF

Effect of Estrogen Administration on Fluid Regulation Responses to Hypertonicity in Post Menopausal Woman
Nina Stachenfeld, PhD
Senior Research Scientist (Obstetrics, Gynecology and Reproductive Health), Yale University

Impact of Treatment and Adherence and Adequacy of Follow-up Health Care on Outcome of Congestive Heart Failure

Viola Vaccarino, MD, PhD

Wilton Looney Chair of Cardiovascular Research and Professor of Medicine and Chair of Epidemiology, Emory University

Year 05 (1996-1997)

Goal-Setting in the Care of Patients with Dementia: The Differing Perspectives of Patient, Family, Case Manager, and Physician

Sidney Bogardus, Jr., MD

Associate Clinical Professor of Medicine (Digestive Diseases), Yale University

Acute Effects of Exercise on Glucose Disposal, Growth Hormone and IGF-I in Healthy Older People

Loretta DiPietro, PhD

Professor and Chair of Exercise Science, George Washington University

Iodide Channels in Thyroid Gland

Peying Fong, PhD

Associate Professor of Anatomy and Physiology - College of Veterinary Medicine, Kansas State University

The Role of IL-6 in Osteoporosis

Karl Insogna, MD

Professor of Medicine (Endocrinology) , Yale University

Identifying Risk Factors Influencing Glycemic Control in Outpatient Elderly Patients

Sandra Moody-Ayers, MD

Associate Clinical Professor of Medicine (Geriatrics) - U. of California – San Francisco

Measuring the Meanings Underlying Global Self-Rated Health

Carol van Doorn, PhD, LCSW-C

Clinical Social Worker/Therapist Private Practice

Depression and Marriage in Older Couples

Mark Whisman, PhD

Professor of Psychology and Neurosciences - U. of Colorado

Pigment Epithelium-Derived Factor (PEDF) and Survival of Identified Ganglion Subtypes in the Aging Primate Retina

Kenneth Wikler, PhD

Executive Director, Bell Falla & Associates

Mechanisms of Epileptogenesis in the Aged Brain

Anne Williamson, PhD

Associate Adjunct Professor of Neurosurgery, Yale University

Year 06 (1997-1998)

Evoked Potentials Evidence for Premature Aging in Alcoholic Subjects

Nashaat Boutros, MD

Professor and Chair, Department of Psychiatry, University of Kansas – Kansas City School of Medicine

Do Changes in Heterochromatin Affect Drosophila Life Span?
Stewart Frankel, PhD
Associate Professor and Chair of Biology - University of Hartford

Alcohol Consumption among Cognitively Impaired Adults: Prevalence, Patterns of Use and Association with Functional Dependence
M. Carrington Reid, PhD, MD
Associate Professor of Medicine (Geriatrics) - Weill Cornell Medical College

Visual Attention Training for Older Drivers
Emily Richardson, PhD
Assistant Research Professor of Psychology - U. of Colorado

Year 07 (1998-1999)

A Diagnostic Criteria for Traumatic Grief in Late Life
Holly Prigerson, PhD
Irving Sherwood Wright Professor of Geriatrics and Professor of Sociology in Medicine, Weill Cornell Medical College

Werner Gene: Cellular Processes Leading to Premature Aging and Reduced Life Span
Anna Marie Szekely, MD
Associate Research Scientist Genetics, Yale University

Year 08 (1999-2000)

Feasibility of Using Conjoint Analysis to Assess Preferences in Treatment of Knee Osteoarthritis in Adults
Liana Fraenkel, MD, MPH
Professor of Medicine (Rheumatology) , Yale University

Skeletal Effects of Age Related Changes in Calcium Metabolism in Men
Barbara Gulanski, MD, MPH
Associate Professor of Medicine (Endocrinology), Yale University

Effects of Aging and Stress on Hippocampal Plasticity and Memory
Jeansok J. Kim, PhD
Professor of Psychology and Neurobiology and Behavior -University of Washington

Identification of Protein Kinase Mediators of Drug Desensitization
Henrik G. Dohlman, PhD
Professor of Biochemistry and Biophysics and of Pharmacology- University of North Carolina - Chapel Hill

Premature Aging a Genetic Disorder, Williams Syndrome
Barbara Pober, MD, MPH
Professor of Medical Sciences, Quinnipiac University School of Medicine

Years 09 and 10 (2000-2002)

The Influence of Self-Stereotypes on AMI Recovery (2 years)

Becca Levy, Ph.D.

Professor of Epidemiology (Social and Behavioral Sciences) and Psychology, School of Public Health, Yale University

Investigation into Underlying Mechanisms of Racial Differences in Susceptibility to Osteoporosis

Urszula Masiukiewicz, M.D.

Assistant Clinical Professor of Medicine (Endocrinology), Yale University

Therapy for Traumatic Grief in Widowed Seniors

Holly Prigerson, Ph.D.

Irving Sherwood Wright Professor of Geriatrics and Professor of Sociology in Medicine, Weill Cornell Medical College

Modifiable Risk Factors for Nursing Home Acquired Pneumonia (2 years)

Vincent Quagliarello, M.D.

Professor of Medicine (Infectious Disease), Yale University

Cognitive Behavioral Therapy for Older Adults with Chronic Back Pain

M. Carrington Reid, Ph.D., MD

Associate Professor of Medicine – Weill Cornell Medical College

Year 11 (2002-2003)

Involuntary Job Loss as a Precipitating Event for Functional Decline and Depressive Symptoms among Predisposed Workers

William T Gallo, PhD

Professor of Public Health, City University of New York

Alterations in Oxidative Stress Response with Human Aging

Nikki J Holbrook, PhD

Retired, Adjunct Professor of Medicine and Pathology, Yale University

Modifiable Risks for Nursing Home Acquired Pneumonia

Vincent J. Quagliarello, MD

Professor of Medicine (Infectious Disease), Yale University

Year 12 (2003-2004)

Novel Cognitive Enhancer for the Aged: Protein Kinase C Inhibition

Amy Arnsten, M.D.

Professor of Neurobiology and Psychology, Yale University

Improving Shared Decision Making in Older Adults with Knee Osteoarthritis: A Pilot Trial

Liana Fraenkel, M.D.

Professor of Medicine (Rheumatology), Yale University

Year 13 (2004-2005)

Age-Related Differences in Sleep–Disordered Breathing in Patients with Acute Ischemic Stroke

Dawn Bravata, MD

Associate Professor of Medicine, Indiana University

Mechanisms of Rod–Dependent Cone Survival in Aging Retina

Caroline Zeiss, PhD, BVSc

Professor of Comparative Medicine, Associate Professor of Ophthalmology and Visual Science, Yale University

Years 14 and 15 (2005-2007)

Aging and Memory CD8+ T Cell Survival

Insoo Kang, MD

Associate Professor of Medicine (Rheumatology), Yale University

Year 16 and 17 (2008-2009)

Heart Failure as a Multifactorial Geriatric Syndrome

Sarwat Chaudhry, MD

Associate Professor of Medicine (General), Yale University

A Multifactorial Model of Emphysema: The Effects of Smoking and Age on TLR- Regulated Pathways

Patty Lee, MD

Associate Professor of Medicine (Pulmonary), Yale University

Interaction of Multiple Genetic and Dietary Factors in AMD Pathogenesis

Caroline Zeiss, PhD, BVSc

Professor of Comparative Medicine, Associate Professor of Ophthalmology and Visual Science, Yale University

Year 18 (2010-2011)

Identification of endogenous and exogenous anti-aging compounds.

Ruslan Medzhitov, MD, PhD

David W. Wallace Professor of Immunobiology, Yale University

DNA methylation of HOXA11: An epigenetic link between aging, obesity and pelvic organ prolapsed.

Kathleen Connell, MD

Associate Professor of Obstetrics and Gynecology (Urology), University of Colorado School of Medicine

Year 19 (2011-2012)

The effect of ambiguity on treatment preferences in the elderly.

Ifat Levy, PhD

Associate Professor of Comparative Medicine and of Neurobiology, Yale University

Regulation of aging by host cell factor C1 and O-GlcNAc signaling.

Xiaoyong Yang, PhD

Associate Professor of Comparative Medicine and of Physiology, Yale University

Year 20 (2012-2013)

MicroRNAs as biomarkers of aging.

Frank Slack, PhD

Shields Warren Mallinckrodt Professor of Pathology and Medicine, Harvard University

Year 21 (2013-2014)

Multifactorial Nature of Age-related Hearing Loss in a Mouse Model of Mitochondrial Pathology

Gerald S Shadel PhD

Professor of Pathology and of Genetics, Yale University

The Role of Multiple Peripheral Metabolites on Cognitive Performance in Older Persons

Raimund Herzog, MD, MHS

Assistant Professor of Medicine (Endocrinology), Yale University

Dyspnea in Older Persons: A Multifactorial Geriatric Health Condition

Carlos Vaz Fragoso, M.D.,

Associate Professor of Medicine, (Geriatrics), Yale University

Year 22 (2014-2015)

Role of the Telomere Binding Protein CTC1 in the Maintenance of Stem Cell Function

Sandy Chang, PhD, MD

Associate Professor of Laboratory Medicine and of Pathology, Yale University

The Role of Intramuscular Adipocytes in Dysfunction of Aged Muscle

Matthew Rodenhoffer, PhD

Associate Professor of Comparative Medicine and of Molecular, Cellular, and Developmental Biology

Rapid Pilot award to support "Circadian Rhythms and Immune Responses in Aging".

Ruth Montgomery, PhD

Associate Professor of Medicine, (Rheumatology), Yale University)

Year 23 (2015-2016)

Obesity and Delirium: Are Adipokines the Biomarkers that Establish the Cognitive-Metabolic Connection in Critically Ill Older Adults?

Amy Ahasic, MD, MPH

Assistant Professor of Medicine (Pulmonary), Yale University

The Role of Dermal Adipocytes in Dysfunction of Aged Skin

Valerie Horsley, PhD

Maxine F. Singer Associate Professor of Molecular, Cellular, and Developmental Biology and Associate Professor of Dermatology, Yale University

Year 24 (2016-2017)

Breaking the AGEs Toward Recombinant Enzyme Therapies

Jason Crawford, PhD

Associate Professor Chemistry and of Microbial Pathogenesis, Yale University

A Multifactorial Model of Psychiatric Outcomes in Older Persons

Becca Levy, PhD

Professor of Epidemiology (Social and Behavioral Sciences) and Psychology, School of Public Health,
Yale University

Rapid Pilot award to support “The Effects of Stress on recovery from Heart Failure”.

Kumar Dhamarajan MD, MBA

Assistant Professor of Medicine (Cardiology), Yale University)

Section III. Career Development Subsequent to Pepper Support

Pilot P.I. Name and Current Status	Pepper Pilot and/or RCDC Support: Title, Dates
<p>Sharon Inouye, MD, MPH</p> <p>Milton and Shirley F. Levy Family Chair and Professor of Medicine at Harvard Medical School</p> <p>Director, The Aging Brain Center, Institute for Aging Research, Hebrew Senior Life, Boston, MA</p>	<p>“Prevention of Delirium in Hospitalized Elderly Patients” - 1992-93</p> <p>“Identifying Precipitating Factors for Delirium in Hospitalized Elderly Patients” - 1993-94</p>
<p>Thomas A. Glass, Ph.D.</p> <p>Professor of Epidemiology, John Hopkins University, Bloomberg School of Public Health</p> <p>Senior Associate Member, Johns Hopkins Center on Aging and Health</p>	<p>“Psychosocial Intervention in Elderly Stroke Patients: Screening and Assessment” – 1992-93</p> <p>“Psychosocial Intervention in Elderly Stroke Patients: Intervention” – 1993-94</p>
<p>Harlan M. Krumholz, M.Sc., MD</p> <p>Harold H. Hines, Jr. Professor of Medicine (Cardiology) and of Investigative Medicine and of Public Health, Yale University</p> <p>Professor in the Institute of Social and Policy Studies, Yale University</p> <p>Director, Yale-New Haven Hospital Center for Outcomes Research and Evaluation</p> <p>Director, Yale Robert Wood Johnson Clinical Scholars Program</p> <p>Member, Institute of Medicine</p>	<p>“Congestive Heart Failure in the Elderly: Role of Left Ventricular Function on Prognosis and Management” - 1992-93</p>

<p>Richard Marottoli, MD, MPH</p> <p>Professor of Medicine – Geriatrics, Yale University</p> <p>Director, Yale New Haven Hospital Dorothy Adler Geriatric Assessment Center</p>	<p>“Study of Older Driver Assessment Instrument” - 1993-94</p>
<p>Joann Elmore, MD, MPH</p> <p>Professor of Medicine, University of Washington</p>	<p>“Cumulative Call Back Rate in Mammography” – 1994-95</p>
<p>Teresa E. Seeman, PhD</p> <p>Professor of Medicine (Geriatrics) and of Epidemiology, David Geffen School of Medicine, UCLA</p> <p>Core Leader, UCLA OAIC Research Operations Core</p>	<p>“Predicting Differential Patterns of Response to Challenge” - 1993-94</p> <p>“Response to Challenge as a Mechanism of Successful Aging” (with DiPietro) - 1994-95</p>
<p>Dorothy Baker, PhD, RN-C</p> <p>Senior Research Scientist (Geriatrics), Yale University</p>	<p>“Dissemination of Home-Based Fall Reduction Information” – 1994-95</p>

<p>Martha L. Bruce, Ph.D., MPH</p> <p>Professor of Psychiatry and of Community and Family Medicine and of The Dartmouth Institute, Geisel School of Medicine, Dartmouth College</p>	<p>“Depression in Elderly Medical Homecare Patients” – 1994-95</p>
<p>Dana Leifer, MD</p> <p>Associate Professor of Neurology, Weill Cornell Medical College</p>	<p>“Functional MRI Studies of Motor Recovery from Stroke” - 1994-95</p>
<p>Benjamin Druss, MD, MPH</p> <p>Professor of Health Policy and Management, Emory University</p> <p>Rosalynn Carter Chair in Mental Health, Rollins School of Public Health, Emory University</p>	<p>“Measuring Satisfaction with Medical Services for Elderly Veterans with Comorbid Medical and Psychiatric Illnesses” – 1995-97</p>
<p>Colleen Grogan, Ph.D.</p> <p>Professor of Social Service Administration, University of Chicago</p>	<p>“The Socio-demographic Factors Associated with Medical Expenditures Prior to Death” 1994-95</p>
<p>Terri Fried, MD</p> <p>Professor of Medicine (Geriatrics), Yale University</p> <p>Co-Director Yale Program on Aging</p> <p>Co-Director Yale Pepper Center</p> <p>Core Leader, Research Career Development Core, Yale Pepper Center</p>	<p>“Factors Associated with Short-term Mortality and Site of Death of Older Homecare Patients” – 1995-96</p> <p>Yale Pepper Center Field Core Development Study “Eliciting Older Persons’ Priorities among Competing Outcomes” (PI: Fried) (2005-2007)</p>
<p>Thomas M. Gill, MD</p> <p>Humana Foundation Professor of Medicine (Geriatrics)</p>	<p>“Predictors of Recovery of ADL Function Among Disabled Older Persons Living in the Community” – 1995-96 (In-kind only)</p>

<p>Professor of Epidemiology (Chronic Diseases)</p> <p>Professor of Investigative Medicine</p> <p>Director, Yale Training Program in Geriatric Clinical Epidemiology and Aging Related Research</p> <p>Director, Yale Program on Aging</p> <p>Director, Yale Pepper Center</p> <p>Director, Yale Center for Disability and Disabling Disorders;</p>	
<p>Mark Horowitz, Ph.D.</p> <p>Professor of Orthopaedics and Rehabilitation, Yale University</p> <p>Vice Chair for Research, Yale Core Center for Musculoskeletal Disorders and Director of the Cell Core</p>	<p>“Analysis of Age-Related Changes in Human Osteoblasts” 1995-96</p>
<p>Carolyn Mazure, Ph.D.</p> <p>Norma Weinberg Spungen and Joan Lebson Bildner Professor of Psychiatry and of Psychology, Yale University</p> <p>Director, Women's Health Research at Yale</p>	<p>“Stressors as Risk Factors for Late Onset Major Depression” - 1995-96</p>
<p>Steven Palter, MD</p> <p>Medical and Scientific Director, Gold Coast IVF, Syosset, NY</p>	<p>“Studies on the Relationship Between Lactational Vasomotor Episodes and Those of Menopause” - 1995-96</p>
<p>Nina Stachenfeld, Ph.D.</p> <p>Senior Research Scientist in Obstetrics, Gynecology and Reproductive Science, Yale University</p>	<p>“Effect of Estrogen Administration on Fluid Regulation Responses to Hypertonicity in Post Menopausal Woman” - 1995-96</p>

<p>Viola Vaccarino, MD, Ph.D.</p> <p>Wilton Looney Chair of Cardiovascular Research</p> <p>Professor of Medicine and Chair of Epidemiology, Emory University</p> <p>Director, Emory Program in Cardiovascular Outcomes Research and Epidemiology</p>	<p>“Impact of Treatment and Adherence and Adequacy of Follow-up Health Care on Outcome of Congestive Heart Failure” - 1995-97</p>
<p>Sidney Bogardus, Jr., MD</p> <p>Associate Clinical Professor of Medicine (Digestive Diseases), Yale University</p>	<p>“Goal-Setting in the Care of Patients with Dementia: The Differing Perspectives of Patient, Family, Case Manager, and Physician” - 1996-97</p> <p>“Treatment Goals for Persons with Multifactorial Geriatric Health Conditions” RCDC Awardee, 2002-2003</p>
<p>Loretta DiPietro, Ph.D., MPH</p> <p>Professor and Chair of the Department of Exercise Science, George Washington University</p> <p>Director, Physical Activity in Public Health – MPH Program, George Washington University</p>	<p>“Acute Effects of Exercise on Glucose Disposal, Growth Hormone and IGF-I in Healthy Older People” - 1996-97</p>
<p>Peying Fong, Ph.D.</p> <p>Associate Professor of Anatomy and Physiology, College of Veterinary Medicine, Kansas State University</p>	<p>“Iodide Channels in Thyroid Gland” - 1996-97</p>
<p>Karl Insogna, MD</p> <p>Professor of Medicine (Endocrinology), Yale University</p> <p>Director, Yale Bone Center</p>	<p>“The Role of IL-6 in Osteoporosis” - 1996-97</p>

<p>Sandra Moody-Ayers, MD</p> <p>Associate Clinical Professor of Medicine (Geriatrics) University of California, San Francisco</p>	<p>“Identifying Risk Factors Influencing Glycemic Control in Outpatient Elderly Patients” - 1996-97</p>
<p>Carol van Doorn, Ph.D. LCSW-C</p> <p>Clinical Social Worker/Therapist, Private Practice, Fredrick, MD</p>	<p>“Measuring the Meanings Underlying Global Self-Rated Health” - 1996-97</p>
<p>Mark Whisman, Ph.D.</p> <p>Professor of Psychology and Neurosciences, University of Colorado, Boulder</p>	<p>“Depression and Marriage in Older Couples” - 1996-97</p>
<p>Kenneth Wikler, Ph.D.</p> <p>Executive Director, Bell Falla & Associates, Bala Cynwyd, PA.</p>	<p>“Pigment Epithelium-Derived Factor (PEDF) and Survival of Identified Ganglion Subtypes in the Aging Primate Retina” - 1996-97</p>
<p>Anne Williamson, Ph.D.</p> <p>Associate Professor (Adjunct) of Neurosurgery, Yale University</p>	<p>“Mechanisms of Epileptogenesis in the Aged Brain” - 1996-97</p>
<p>Nashaat Boutros, MD</p> <p>Professor and Chair, Department of Psychiatry, University of Missouri – Kansas City School of Medicine</p> <p>Medical Director, Center for Behavioral Medicine, University of Missouri, Kansas City.</p>	<p>“Evoked Potentials Evidence for Premature Aging in Alcoholic Subjects” - 1997-98</p>
<p>Stewart Frankel, Ph.D.</p> <p>Associate Professor and Chair of Biology, University of Hartford, CT</p>	<p>“Do Changes in Heterochromatin Affect Drosophila Life Span?” – 1997-98</p>
<p>M. Carrington Reid, Ph.D., MD,</p>	<p>“Alcohol Consumption among Cognitively</p>

<p>Irving Sherwood Wright Associate Professor of Medicine (Geriatrics), Weill Cornell Medical College</p>	<p>Impaired Adults: Prevalence, Patterns of Use and Association with Functional Dependence” -1997-98</p> <p>“Cognitive Behavioral Therapy for Older Adults with Chronic Back Pain” 2000-2002</p>
<p>Emily D. Richardson, Ph.D.</p> <p>Assistant Research Professor, Psychology, University of Colorado at Boulder</p> <p>Director, Brain Behavior Clinic</p>	<p>“Cognitive Function, Self Efficacy Beliefs and Behavioral Function in the Elderly” 1994-1995</p> <p>“Visual Attention Training for Older Drivers” - 1997-98</p>
<p>Holly G. Prigerson, Ph.D., MS</p> <p>Irving Sherwood Wright Professor of Geriatrics and Professor of Sociology in Medicine, Weill Cornell Medical College</p> <p>Director, Cornell Center for Research in End of Life Care</p>	<p>“Diagnostic Criteria for Traumatic Grief in Late Life: A Feasibility Study” – 1998-99</p> <p>“Therapy for Traumatic Grief in Widowed Seniors” 2000-2002</p> <p>“Promoting Research Participation among Black and Hispanic Older Adults” (2002-2003)</p>
<p>Anna Marie Szekely, M.D.</p> <p>Associate Research Scientist in Genetics and in Neurology, Yale University</p>	<p>“Werner Gene- Cellular Process Leading to Premature Aging and Reduced Life Span” 1998-1999</p>
<p>Liana Fraenkel, MD, MPH</p> <p>Professor of Medicine (Rheumatology), Yale University</p>	<p>“Feasibility of Using Conjoint Analysis to Assess Preferences for Treatment of Knee Osteoarthritis in Older Adults” 1999-2000</p> <p>“Improving Shared Decision Making in Older Adults with Knee Osteoarthritis: A Pilot Trial” (2003-2005)</p>
<p>Barbara I. Gulanski, MD, MPH</p> <p>Associate Professor Medicine (Endocrinology), Yale University</p>	<p>“Skeletal Effects of Age-Related Changes in Calcium Metabolism in Men” 1999-2001</p>

<p>Jeansok J. Kim, Ph.D.</p> <p>Professor of Psychology and Neurobiology and Behavior, University of Washington</p>	<p>“Effects of Aging and Stress on Hippocampal Plasticity and Memory” 1999-2000</p>
<p>Henrik G. Dohlman, PhD</p> <p>Professor and Vice-Chair of Biochemistry and Biophysics and Professor of Pharmacology, University of North Carolina School of Medicine</p>	<p>“Identification of Protein Kinase Mediators of Drug Desensitization- Finding Protein Likely to Play a Role in Parkinson’s Disease and Depression” 1999-2000</p>
<p>Barbara Pober, MD, MPH</p> <p>Professor of Medical Sciences, Quinnipiac University, School of Medicine</p>	<p>“Premature Aging a Genetic Disorder, Williams Syndrome”- 1999-2000</p>
<p>Becca Levy, Ph.D.</p> <p>Professor of Epidemiology (Social and Behavioral Sciences) and of Psychology, Yale University</p> <p>Director, Social and Behavioral Sciences Division, Yale School of Public Health</p>	<p>“The Influence of Self-Stereotypes on AMI Recovery” 2000-2002</p> <p>“A multifactorial Model of Psychiatric Outcomes in Older Persons” 2016-2017</p>
<p>Urszula Masiukiewicz, M.D.</p> <p>Assistant Clinical Professor of Medicine (Endocrinology), Yale University</p>	<p>“Investigation into Underlying Mechanisms of Racial Differences in Susceptibility to Osteoporosis” 2000-2002</p>
<p>Vincent Quagliarello, M.D</p> <p>Professor of Medicine (Infectious Diseases), Yale University</p>	<p>“Modifiable Risk Factors for Nursing Home Acquired Pneumonia” 2002-2004</p>
<p>William T Gallo, PhD</p>	<p>“Involuntary Job Loss as a Precipitating Event for Functional Decline and Depressive Symptoms</p>

Professor of Public Health, City University of New York	among Predisposed Workers” 2002-2005
Nikki J Holbrook, PhD Retired, Adjunct Professor of Medicine and Pathology, Yale University	“Alterations in Oxidative Stress Response with Human Aging” 2002 - 2003
Cary Gross, MD Professor of Medicine (General) and of Epidemiology (Chronic Diseases) and in the Institute of Social and Policy Studies, Yale University Co-Director, Robert Wood Johnson Clinical Scholars Program at Yale University	“Barriers to participation of older cancer patients in clinical trials” - 2002 - 2004
Margaret Pisani, MD, MPH Associate Professor of Medicine (Pulmonary), Yale University Director, Pulmonary and Critical Care Medicine Fellowship	“Older patients in the intensive care unit setting” - 2002-2005
Joel Dubin, PhD Associate Professor of Statistics and of Actuarial Science, University of Waterloo, Canada	Yale Pepper Center, Biostatistical Core Development Study, “Methodology Development for Longitudinal Studies of Precipitating Events” (2002-2005)
Karyn Frick, PhD Professor of Psychology, University of Wisconsin, Milwaukee	“Environmental enrichment as mnemonic enhancer for aging male and female mice” - 2003-2005
Amy Arnsten, PhD Professor of Neurobiology and of Psychology, Yale University	“Novel Cognitive Enhancer for the Aged: Protein Kinase C Inhibition” (2003-2004)

<p>Cynthia Brandt, MD, MPH</p> <p>Professor of Emergency Medicine and of Anesthesiology (Medical Informatics), Yale University</p>	<p>Yale Pepper Center, Data management & Informatics Core Development Study, “Geriatrics Research Instrument Library (GRIL)” 2002-2005</p>
<p>Dawn Bravata, MD</p> <p>Associate Professor of Medicine, School of Medicine, Indiana University</p>	<p>“Age-Related Differences in Sleep–Disordered Breathing in Patients with Acute Ischemic Stroke” (2004-2006)</p>
<p>Caroline Zeiss, PhD, BVSc, DACVP</p> <p>Professor of Comparative Medicine</p> <p>Associate Professor of Ophthalmology and Visual Sciences, Yale University</p> <p>Director, Mouse Research Pathology Service, Yale University</p>	<p>“Mechanisms of Rod–Dependent Cone Survival in Aging Retina” (2004-2006)</p> <p>“Developing a National Mouse Mammary Tumor Tissue Array Resource” (2007-2008)</p> <p>“Interaction of Multiple Genetic and Dietary Factors in AMD Pathogenesis” (2008-2010)</p>
<p>Joseph Agostini, MD</p> <p>National Medical Director, Medicare, Aetna, Inc. Hartford, CT</p>	<p>“Benefits and harms of total medication use” – 2004-2008</p>
<p>Albert Shaw, MD, PhD</p> <p>Associate Professor of Medicine (Infectious Diseases), Yale University</p>	<p>“Alterations in toll-like receptor signaling in older adults” – 2004-2006</p>
<p>JoAnn Foody, MD</p> <p>Associate Professor of Medicine, Harvard Medical School</p> <p>Medical Director, Pollin Cardiovascular Wellness Center Brigham & Women’s Hospital</p>	<p>“Tradeoffs between clinical outcomes in older persons with multiple morbidities” – 2005-2007</p>
<p>Daniel Goldstein, MBBS</p>	<p>“Mechanisms of impaired immunity in aging” –</p>

<p>Professor of Medicine (Cardiology) and of Immunobiology, Yale University</p>	<p>2005-2008</p>
<p>Josephine Hoh, PhD</p> <p>Associate Professor of Epidemiology (Environmental Health) and of Ophthalmology and Visual Science, Yale University</p>	<p>Yale Pepper Center, Biostatistical Core Development Study -Phenotype and Genotype Diversity in Age-Related Macular Degeneration - 2005-2007</p>
<p>Insoo Kang, MD</p> <p>Associate Professor of Medicine (Rheumatology), Yale University</p>	<p>Aging and Memory CD8+ T Cell Survival 2005-2007</p>
<p>Julie Ann Sosa, MD, MA, FACS</p> <p>Professor of Surgery (Endocrine) and of Medicine, Duke University</p>	<p>“Effects of surgery on older patients with primary hyperparathyroidism” – 2005-2007</p>
<p>Lisa Cataldi-Barry, PhD, MPH</p> <p>Assistant Professor of Psychiatry, University of Connecticut, Center on Aging</p>	<p>“Effect of depression on disability burden over time” - 2008</p>
<p>Carlos Vaz Fragoso, MD</p> <p>Associate Professor of Medicine (Geriatrics), Yale University</p>	<p>“Pulmonary Function Study” – 2008</p> <p>“Sleep Complaints: A Multifactorial Geriatric Syndrome” – 2010 -2012</p> <p>“Dyspnea in Older Persons: A Multifactorial Geriatric Health Condition” – 2013-2014</p>
<p>Sarwat Chaudhry, MD</p> <p>Associate Professor of Medicine (General) and in the Institute of Social and Policy Studies, Yale University</p>	<p>“Heart Failure as a Multifactorial Geriatric Syndrome” 2008-2011</p>

<p>Manisha Juthani-Mehta, MD</p> <p>Associate Professor of Medicine (Infectious Diseases), Yale University</p> <p>Program Director, Infectious Diseases Fellowship Program</p>	<p>“UTI in nursing home patients” - 2008 - 2011</p>
<p>Arthur Simen, MD, PhD</p> <p>Director, Pfizer Inc., Research and Development, Cambridge, Massachusetts</p> <p>Assistant Professor (Adjunct) of Psychiatry, Yale University</p>	<p>“Multifactorial risk for late life depression” – 2008 -2010</p>
<p>Patty Lee, MD</p> <p>Associate Professor of Medicine (Pulmonary), Yale University</p>	<p>“A Multifactorial Model of Emphysema: The Effects of Smoking and Age on TLR- Regulated Pathways” 2008-2010</p>
<p>Leora Horwitz, MD, MHS</p> <p>Associate Professor (Adjunct) of Medicine (General), Yale University</p> <p>Associate Professor, Department of Population Health, NYU School of Medicine</p>	<p>“Heart failure readmissions in high and low performing hospitals” – 2010 -2012</p>
<p>Ruslan Medzhitov, PhD</p> <p>David W Wallace Professor of Immunobiology, Yale University</p> <p>Member, National Academy of Sciences</p> <p>Member, Institute of Medicine</p>	<p>“Identification of endogenous and exogenous anti-aging compounds.” - 2010-2011</p>
<p>Stephanie Halene, MD</p>	<p>“Modeling myelodysplasia in aging adults” – 2010 -2012</p>

Assistant Professor of Medicine (Hematology), Yale University	
Kathleen Connell, MD Associate Professor of Obstetrics and Gynecology (Urogynecology), University of Colorado	“DNA methylation of HOXA11: An epigenetic link between aging, obesity and pelvic organ prolapse” 2010-2012
Ifat Levy, PhD Associate Professor of Comparative Medicine and of Neurobiology, Yale University	“The effect of ambiguity on treatment preferences in the elderly” 2011-2012
Xiaoyong Yang, PhD Associate Professor of Comparative Medicine and of Cellular and Molecular Physiology, Yale University	“Regulation of aging by host cell factor C1 and O-GlcNAc signaling” 2011-2012
Sandy S. Chang, MD, MHS Assistant Professor of Medicine (Geriatrics), Case Western Reserve University	“Trajectories of cognitive function and their impact on hospitalizations, functional disability, and death in older adults with COPD”, 2011-2013
Robert Pietrzak, PhD, MPH Associate Professor of Psychiatry, Yale University Director, Translational Psychiatric Epidemiology Laboratory	“Resilience in the face of disaster: Post disaster psychological adaptation in older persons affected by Hurricane Ike”, 2011-2013
Frank Slack, PhD Shields Warren Mallinckrodt Professor of Pathology and Medicine, Harvard University Director, Institute for RNA Medicine, Harvard University	“MicroRNAs as Biomarkers of Aging”, 2012-2013
Praveen Mannam, MBBS, MS	“MKK3 is a Mediator of Sepsis and Lung Injury in

Assistant Professor of Medicine (Pulmonary)	the Elderly”, 2012-2013
Elisabeth Erekson, MD, MPH Assistant Professor of Obstetrics and Gynecology Geisel School of Medicine at Dartmouth	“Frailty and Functional Status of Older women Seeking Treatment for Urinary Incontinence”, 2012-2013
Gerald S Shadel, PhD Professor of Pathology and of Genetics, Yale University	“Multifactorial Nature of Age-related Hearing Loss in a Mouse Model of Mitochondrial Pathology”, 2013-2014
Raimund Herzog, MD, MHS Assistant Professor of Medicine, Section of Endocrinology, Yale University	“The Role of Multiple Peripheral Metabolites on Cognitive Performance in Older Persons”. 2013-2015
Joan Monin, PhD Assistant Professor of Epidemiology (Chronic Diseases), Yale University	“Multiple Chronic Conditions and Mutuality of Care in Late Life Marriage” 2013-2015
Kasia Lipska, MD, MHS Assistant Professor of Medicine (Endocrinology), Yale University	“Hospitalizations for Diabetes Complications: Understanding Recent Trends and Multiple Factors Leading to Admission” - 2013-2015
Terrence Murphy, PhD Assistant Professor of Medicine (Geriatrics), Yale University	“Cognitive Impairment in the ICU: Bayesian Joint Models of the Time-Dependent Confounding between Multiple Medications and Manifestations of Delirium”, 2013-2014
Melissa Knauert, MD, PhD Assistant Professor of Medicine (Pulmonary), Yale University	“Using EEG to evaluate sleep and delirium in a cohort of older ICU patients” - 2014-2016

<p>Daniel Weinberger, PhD</p> <p>Assistant Professor of Epidemiology (Microbial Diseases), Yale University</p>	<p>“The multifactorial determinants of pneumococcal vaccine impact in the geriatric population” – 2014-2016</p>
<p>Sandy Chang, PhD, MD</p> <p>Associate Professor of Laboratory Medicine and of Pathology, Yale University</p>	<p>“Role of the Telomere Binding Protein CTC1 in the Maintenance of Stem Cell Function” – 2014-2015</p>
<p>Matthew Rodenheffer, PhD</p> <p>Associate Professor of Comparative Medicine and of Molecular, Cellular, and Developmental Biology</p>	<p>“The Role of Intramuscular Adipocytes in Dysfunction of Aged Muscle” – 2014-2015</p>
<p>Ruth Montgomery, PhD</p> <p>Associate Professor of Medicine (Rheumatology), Yale University</p> <p>Associate Dean for Scientific Affairs, Yale School of Medicine</p>	<p>“Circadian Rhythms and Immune Responses in Aging” – 2015 (Rapid Pilot)</p>
<p>Amy Ahasic, MD, MPH</p> <p>Assistant Professor of Medicine (Pulmonary), Yale University</p>	<p>“Obesity and delirium: Are adipokines the biomarkers that establish the cognitive-metabolic connection in critically ill older adults?” 2015-2016</p>
<p>Valerie Horsley, PhD</p> <p>Maxine F. Singer Associate Professor of Molecular, Cellular, and Developmental Biology and Associate Professor of Dermatology, Yale University</p>	<p>“The role of dermal adipocytes in dysfunction of aged skin” 2015-2016</p>
<p>Heidi Zapata, MD, PhD</p> <p>Instructor in Medicine (Infectious Diseases), Yale University</p>	<p>“Effects of age and HIV infection on C-type lectin receptor function” 2015-2017</p>

<p>Lauren Ferrante, MD</p> <p>Instructor in Medicine (Pulmonary), Yale University</p>	<p>“Critical illness, disability, and vulnerability in older persons” 2015-2017</p>
<p>Jason Crawford, PhD</p> <p>Associate Professor (Chemistry and Microbial Pathogenesis), Yale University</p>	<p>“Breaking the AGEs toward recombinant enzyme therapies” 2016-2017</p>
<p>Andrew Cohen, MD</p> <p>Instructor in Medicine (Geriatrics), Yale University</p>	<p>“Guardianship and medical decision making for the unbefriended elderly” 2016-2018</p>
<p>Xi Chen, PhD</p> <p>Assistant Professor of Public Health (Health Policy) and in the Institute for Social and Policy Studies, Yale University</p>	<p>“Social pensions, health, and informal elderly care by the community” 2016-2018</p>
<p>Kumar Dhamarajan MD, MBA</p> <p>Assistant Professor of Medicine (Cardiology), Yale University)</p>	<p>“The Effects of Stress on recovery from Heart Failure”. (Rapid Pilot) 2016</p>

Section IV. YALE PEPPER CENTER PUBLICATIONS 2015-2016

2015

1. Ahasic AM, Van Ness PH, Murphy TE, Araujo KL, Pisani MA. Functional status after critical illness: agreement between patient and proxy assessments. *Age Ageing*. 2015 May;44(3):506-10. PubMed PMID: 25324334; PubMed Central PMCID: PMC4411220.
2. Allore HG, Zhan Y, Tinetti M, Trentalange M, McAvay G. Longitudinal average attributable fraction as a method for studying time-varying conditions and treatments on recurrent self-rated health: the case of medications in older adults with multiple chronic conditions. *Ann Epidemiol*. 2015 Sep;25(9):681-686.e4. PubMed PMID: 26033374; PubMed Central PMCID: PMC4547873.
3. Argento AC, Murphy TE, Pisani MA, Araujo KL, Puchalski J. Patient-Centered Outcomes Following Thoracentesis. *Pleura (Thousand Oaks)*. 2015 Jan-Dec;2PubMed PMID: 26767192; PubMed Central PMCID: PMC4708257.
4. Bann D, Hire D, Manini T, Cooper R, Botosaneanu A, McDermott MM, Pahor M, Glynn NW, Fielding R, King AC, Church T, Ambrosius WT, Gill TM. Correction: Light Intensity Physical Activity and Sedentary Behavior in Relation to Body Mass Index and Grip Strength in Older Adults: Cross-Sectional Findings from the Lifestyle Interventions and Independence for Elders (LIFE) Study. *PLoS One*. 2015;10(4):e0126063. PubMed PMID: 25875330; PubMed Central PMCID: PMC4398567.
5. Botosaneanu A, Ambrosius WT, Beavers DP, de Rekeneire N, Anton S, Church T, Folta SC, Goodpaster BH, King AC, Nicklas BJ, Spring B, Wang X, Gill TM, LIFE Study Groups. Prevalence of metabolic syndrome and its association with physical capacity, disability, and self-rated health in Lifestyle Interventions and Independence for Elders Study participants. *J Am Geriatr Soc*. 2015 Feb;63(2):222-32. PubMed PMID: 25645664; PubMed Central PMCID: PMC4333053.
6. Brummel NE, Balas MC, Morandi A, Ferrante LE, Gill TM, Ely EW. Understanding and reducing disability in older adults following critical illness. *Crit Care Med*. 2015 Jun;43(6):1265-75. PubMed PMID: 25756418; PubMed Central PMCID: PMC4640688.
7. Cesari M, Vellas B, Hsu FC, Newman AB, Doss H, King AC, Manini TM, Church T, Gill TM, Miller ME, Pahor M, LIFE Study Group. A physical activity intervention to treat the frailty syndrome in older persons-results from the LIFE-P study. *J Gerontol A Biol Sci Med Sci*. 2015 Feb;70(2):216-22. PubMed PMID: 25387728; PubMed Central PMCID: PMC4311184.

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9. Cohen AB, Trentalange M, Fried T. Surrogate Decision Making for Patients Without Nuclear Family. *JAMA*. 2015 Jul 28;314(4):408. PubMed PMID: 26219065.
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Lung Disease. J Bronchology Interv Pulmonol. 2016 Jan;23(1):14-21. PubMed PMID: 26705007; PubMed Central PMCID: PMC4864578.

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Section V. Yale Pepper Center External Advisory Board

Name	Institution	Years of Service
Ana Maria Cuervo, M.D., Ph.D.	Albert Einstein School of Medicine	3 years
Kevin P. High, M.D.	Wake Forest Baptist Medical Center	3 years
Edward R. Marcantonio, M.D.	Harvard Medical School	3 years

RECENT SCIENTIFIC RECOGNITION AND AWARDS
YALE UNIVERSITY
OAIC FACULTY

Thomas M. Gill, MD

Merit Award, National Institutes of Health, 2005-2016
Visiting Professor, Houston Methodist Hospital/ Baylor College of Medicine Geriatric, 2014
Member, Fellowship Committee, Gerontological Society of America, 2012–
Chair, Advisory Committee, Beeson Career Development Award Program, 2013–
Brock Institute and Glennan Center for Geriatrics and Gerontology Visiting Professor Scholar,
Eastern Virginia Medical School, 2015.
Visiting Professor, National Institute on Aging Intramural Research Program, 2015.
Visiting Professor, UTMB Sealy Center on Aging, 21th Annual Lefebber Winter Series on Aging,
2016.

Terri Fried, MD

Mason F. Lord Lecture and Visiting Professor, Johns Hopkins School of Medicine, 2016

Heather Allore, PhD

Women's Midcareer Leadership Competitive Application, American Association of Medical
Colleges, 2014

Bianca Buurman, RN PhD

Merck/American Geriatrics Society New Investigator Award, 2014

Andrew B. Cohen, DPhil, MD

Selected Participant, Hartford Change AGENTS Policy Institute, The John A Hartford Foundation,
2014
Presidential Poster Award for Ethics, American Geriatrics Society, 2015

Leo M. Cooney, Jr., MD

David J Leffell Prize for Clinical Excellence, Yale School of Medicine, 2014

Kumar Dharmarajan, MD, MBA

Beeson Career Development Award in Aging Research, 2014

John Dodson, MD

Merck/American Geriatrics Society New Investigator Award, 2014

Lauren Ferrante, MD

Recipient, Abstract Scholarship to American Thoracic Society's 2014 International Conference, 2014

Selected Participant, National Institute on Aging Butler-Williams Scholars Program, 2014
Hartford Center of Excellence Award 2013-2015

GEMSSTAR Award, National Institute on Aging, 2015-2017

T. Franklin Williams Scholar (ATS/AAIM-ASP Career Development Award in Geriatrics) 2015-2017

New Investigator Award, Merck/American Geriatrics Society, 2016

Co-chair, Aging and Geriatrics Working Group, American Thoracic Society Critical Care Assembly, 2016

Iva Dostanic Physician Scientist Trainee Award, Yale Medical School, 2016

Ling Han, MD, PhD

Official Delegate to Chinese Congress and Exposition on Gerontology and Health Industry, Suzhou, China, The Gerontological Society of America, 2014

Melissa Knauert, MD

Clinical and Community-Based Research Scholar Award, Yale Center of Clinical Investigation, 2015-2017

Becca Levy, PhD

Senior Scholar Award for Research Related to Disadvantaged Older Adults, Gerontological Society of America and Senior Services of America, 2014

Kasia Lipska, MD, MHS

Beeson Career Development Awards in Aging Research, 2014

Una Makris, MD

Merck/American Geriatrics Society, New Investigator Award, 2015

Praveen Mannam, MBBS, MS

Recipient, (GEMSSTAR) Grants for Early Medical/Surgical Subspecialists' Transition to Aging Research, 2012-2014

Ruslan Medzhitov, PhD

Elected to Institute of Medicine, 2014

Terrence Murphy, PhD

Merck/American Geriatrics Society, New Investigator Award, 2014

Alexander Panda, MD, MPH

Beeson Career Development Awards in Aging Research 2012-2017

Carolyn Presley, MD

Robert Wood Johnson Clinical Scholar, 2015-2017

Young Investigator Award, Conquer Cancer Foundation, American Society of Clinical
Oncology, 2016

Mary E Tinetti, MD

MacArthur Foundation Fellow, The John D. and Catherine T. MacArthur Foundation, 2009 -
2014

Best Doctors in America, 2010-2014

Lisa Walke, MD

New York Magazine, Best Doctors, 2014

Fellow, American Geriatrics Society, 2014

Daniel Weinberger PhD

Clinical and Community-Based Research Scholar Award, Yale Center of Clinical Investigation,
2015-2017

Xiaoyong Yang, PhD

Research Scholar Award, American Cancer Society, 2015

New Scholar Award, Ellison Medical Foundation, 2011-2015

Claude D. Pepper
Older Americans Independence Center at Yale
Minority Research

Minority trainees:

1. Heidi J. Zapata, MD, PhD : Effects of Age and HIV Infection on C-type lectin receptor function
 - Zapata, H.J. and Quagliarello, V.J. The Microbiota and Microbiome in Aging: Potential Implications in Health and Age-related diseases. *J. Amer. Geriatr. Soc.* 2015; 63:776-781. PMID: PMC4406803.
 - Walker, W.E., Kurscheid, S., Joshi, S., Lopez, C., Goh, G., Choi, M., Barakat, L., Francis, J., Fisher, A., Kozal, M., Zapata, H., Shaw, A., Lifton, R., Sutton, R.E., and Fikrig, E. Increased levels of MIPs result in resistance to R5-tropic HIV-1 in a subset of Elite Controllers. *J. Virol.*, 2015; 89: 5502-5514. PMID: PMC4442529

2. Lauren Ferrante, M.D. Critical Illness, Disability, and Vulnerability in Older Persons
 - Brummel NE, Balas MC, Morandi A, Ferrante LE, Gill TM, Ely EW. Understanding and reducing disability in older adults following critical illness. *Crit Care Med.* 2015 Jun;43(6):1265-75. PubMed PMID: 25756418; PubMed Central PMCID: PMC4640688.
 - Ferrante LE, Pisani MA, Murphy TE, Gahbauer EA, Leo-Summers LS, Gill TM. Functional trajectories among older persons before and after critical illness. *JAMA Intern Med.* 2015 Apr;175(4):523-9. PubMed PMID: 25665067; PubMed Central PMCID: PMC4467795.
 - Ferrante LE, Pisani MA, Murphy TE, Gahbauer EA, Leo-Summers LS, Gill TM. Factor Associated with Functional Recovery Among Older ICU Survivors. *Am J Respir Crit Care Med.* 2016 Feb 3;PubMed PMID: 26840348.

Minority Research

1. Kasia Lipska, MD: Hospital Admissions for Diabetes Complications– Understanding Recent Trends and Etiology

Aim :

Describe recent trends in hospital admissions for short-term complications of diabetes -- hypoglycemia or hyperglycemia -- among Medicare recipients from 1998-2008.

Hypothesis:

There will be an increase in potentially preventable admissions for diabetes nationally, with persistent racial disparities (higher rates among blacks than whites) and regional differences.

Progress

This aim has been completed and was published in *JAMA Internal Medicine*.¹

In this study, we found that hospital admission rates for hypoglycemia now exceed those for hyperglycemia among older Medicare beneficiaries. Although admissions for hypoglycemia have declined modestly since 2007, rates among Black Medicare beneficiaries and those older than 75 years age remain high. The implications of this work are that hypoglycemia now poses a significant health threat to older Americans and there is an urgent need to reduce this burden.