

Funding Opportunities in Key Areas

Aging:

Note: Funding opportunities are listed in order of expiration date, beginning with those that will expire soonest.

- **High Priority Behavioral and Social Research Networks (R24)**

<http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-14-007.html>

Letter of Intent Due Date: September 22, 2013

Application Due Date: October 22, 2013. Expires October 23, 2013.

Purpose: The National Institute on Aging (NIA), working in part with funds contributed by the NIH Office of Behavioral and Social Sciences Research (<http://obssr.od.nih.gov/index.aspx>), is pursuing this initiative to provide infrastructure support in specific emerging and high priority interdisciplinary areas of behavioral and social research of relevance to aging. This FOA will use the NIH Resource-Related Research Project (R24) mechanism to facilitate research networks to seed the following integrative and interdisciplinary research areas through meetings, conferences, small scale pilots, short term training opportunities (such as intensive workshops, summer institutes, or visiting scholar programs) and dissemination activities to encourage growth and development of the field at large, so they can develop to the point where work in this area can be supported through standard mechanisms (such as research grants, conference grants, program projects, centers, and/or institutional training grants). High priority research areas are listed in the funding opportunity announcement.

Note: The UK Economic and Social Research Council (ESRC) has expressed interest in this funding opportunity and may opt to independently support components of applications submitted under this initiative. The ESRC interest in this funding opportunity is confined to applications addressing 1. Reversibility, 2. Epigenetics, and 3. Valuing Health Research. To be eligible for ESRC support, applications must be submitted to the ESRC and include a UK component and UK investigator. For further information on what constitutes a 'UK component' see the FAQ document associated with this RFA <http://www.nia.nih.gov/research/dbsr/faq-networks-rfa-r24>.

- **Paul B. Beeson Patient-Oriented Research Career Development Award in Aging (K23)**

<http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-14-014.html>

Letter of Intent Due Date: October 14, 2013

Application Due Date: November 14, 2013. Expires November 15, 2013.

Unless otherwise specified, Letters of Intent are not required, not binding, and do not enter into the review of a subsequent application.

If you would like support applying for any of these opportunities, please contact Dr. Pam Factor-Litvak, Associate Dean for Research Resources (R²) at prf1@columbia.edu.

Purpose: The National Institute on Aging (NIA) and the National Institute of Neurological Disorders and Stroke (NINDS) are pursuing this initiative to encourage and assist the development of future leaders in the field of aging by supporting clinically trained (primarily physician) faculty members early in their careers to gain additional research training and to establish independent programs in aging research. The John A. Hartford Foundation (<http://www.jhartfound.org/>) and The American Federation for Aging Research (<http://afar.org/>) are interested in independently funding applications submitted under this initiative.

- **Paul B. Beeson Clinical Scientist Development Award in Aging (K08)**

<http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-14-013.html>

Letter of Intent Due Date: October 14, 2013

Application Due Date: November 14, 2013. Expires November 15, 2013.

Purpose: The National Institute on Aging (NIA) and the National Institute of Neurological Disorders and Stroke (NINDS), are pursuing this initiative to encourage and assist the development of future leaders in the field of aging by supporting clinically trained (primarily physician) faculty members early in their careers to gain additional research training and to establish independent programs in aging research.

The John A. Hartford Foundation (<http://www.jhartfound.org/>) and The American Federation for Aging Research (<http://afar.org/>) are interested in independently funding applications submitted under this initiative.

- **National Institute on Aging Analysis of Alzheimer's Disease Genome Sequencing Project Data [U19]**

<http://grants.nih.gov/grants/guide/pa-files/PAR-12-183.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires January 8, 2014.

Purpose: The National Institute on Aging invites applications specific to the analysis of whole exome and genome sequencing data provided by the National Human Genome Research Institute Large-Scale Sequencing Program for the Alzheimer's disease research community.

- **Practical Interventions to Improve Medication Adherence in Primary Care (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-12-022.html>

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Letter of Intent Due Dates: N/A

Application Due date: Standard NIH Due Dates Apply. Expires January 8, 2014.

Purpose: This funding opportunity announcement (FOA) is being issued by the NIH Adherence Network through the Office of Behavioral and Social Sciences Research (OBSSR), with participation from the National Cancer Institute (NCI), the National Eye Institute (NEI), the National Heart, Lung, and Blood Institute (NHLBI), the National Institute on Aging (NIA), the National Institute on Deafness and Other Communication Disorders (NIDCD), the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), the National Institute of Mental Health (NIMH), the National Institute of Nursing Research (NINR), and the National Center for Complementary and Alternative Medicine (NCCAM). This FOA seeks Research Project Grant (R01) applications that propose practical interventions to improve adherence to medication. This FOA will support research to test interventions with the potential to significantly improve medication adherence in patients with chronic health conditions in settings where primary health care is delivered (including, dental and eye care settings). Applications may target medication adherence in the context of treatment for a single illness or chronic condition (e.g., hypertension) or multiple comorbid conditions (e.g., hypertension and HIV/AIDS). Studies should use the most rigorous design and methodology possible given the populations and settings in which the study is taking place. Primary outcomes of the research should include: a patient self-report of medication adherence, and at least one other non-self-report measure of medication adherence (e.g., pharmacy refill records, electronic monitoring, etc.). In addition, applications should include a health outcome or biomarker (e.g., blood pressure, viral load in HIV patients, cholesterol levels, HbA1c) that is expected to be affected by changes in the targeted adherence behavior. Researchers should address the capacity of the tested approach for wide dissemination, the sustainability of the approach once the research is concluded, and are encouraged to include measurement and costs of the intervention characteristics and contextual factors that affect implementation and adoption.

- **Practical Interventions to Improve Medication Adherence in Primary Care (R21)**

<http://grants.nih.gov/grants/guide/pa-files/PA-12-023.html>

Letter of Intent Due Dates: N/A

Application Due date: Standard NIH Due Dates Apply. Expires January 8, 2014.

Purpose: This funding opportunity announcement (FOA) is being issued by the NIH Adherence Network through the Office of Behavioral and Social Sciences Research (OBSSR), with participation from the National Eye Institute (NEI), the National Heart, Lung, and Blood Institute (NHLBI), the National Institute on Aging (NIA), the National Institute on Deafness and Other Communication Disorders (NIDCD), the National Institute of Mental Health (NIMH), the National Institute of Nursing Research (NINR) and

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the National Center for Complementary and Alternative Medicine (NCCAM). This FOA encourages Exploratory/Developmental Research Project Grant (R21) applications for research and development of novel, practical interventions to improve adherence to medication. Development of interventions/approaches with the potential to significantly improve medication adherence in patients with chronic health conditions in settings where primary health care is delivered (including, dental and eye care settings) are encouraged. Applications may target medication adherence in the context of treatment for a single illness or chronic condition (e.g., hypertension) or multiple comorbid conditions (e.g., hypertension and HIV/AIDS). Applicants should demonstrate the feasibility of collecting multi-modal data on the targets of the intervention including: a patient self-report of medication adherence and at least one other non-self-report measure of medication adherence (e.g., pharmacy refill records, electronic monitoring, etc.), as well as a health outcome or biomarker (e.g., blood pressure, viral load in HIV patients, cholesterol levels, HbA1c or clinical assessment for conditions in which there is no validated biomarker) that is expected to be affected by changes in the targeted adherence behavior.

- **Roybal Centers for Translational Research on Aging (P30)**

<http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-14-004.html>

Letter of Intent Due Date: December 22, 2013

Application Due date: January 22, 2014

Purpose: This Funding Opportunity Announcement (FOA) solicits Edward R. Roybal Centers for Translation Research in the Behavioral and Social Sciences of Aging. Center resources are intended for the development and piloting of new and innovative ideas for early stage as well as late stage translation of basic behavioral and social research findings about established or hypothesized mechanisms of action, at the individual or population level, into programs and practices that will improve the lives of older people and the capacity of institutions to adapt to societal aging.

- **Mid-life Reversibility of Early-established Biobehavioral Risk Factors (R01)**

<http://grants.nih.gov/grants/guide/rfa-files/RFA-AG-14-006.html>

Letter of Intent Due Date: January 3, 2014

Application Due Date: February 3, 2014

Purpose: The purpose of this funding opportunity announcement (FOA) issued by the National Institute on Aging, is to solicit research applications exploring the potential for midlife plasticity of biobehavioral or psychological systems that can be targeted to reverse effects incurred by early life disadvantage. This requires studies that: 1) conceptualize and estimate the extent of long term effects of childhood environmental

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adversity on trajectories of aging; 2) identify specific risk mechanisms in the social environment that account for the persistent effect of childhood adversity on trajectories of aging; 3) elucidate the biological gateways and mechanisms through which childhood adversity affects trajectories of aging; and 4) explore the potential for reversibility of persistent risk mechanisms in order to develop novel strategies for preventive interventions in midlife and beyond.

- **Biodemography of Aging (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PAR-12-078.html>

Letter of Intent Due Date: February 3, 2014

Application Due date: March 3, 2014, by 5:00 PM local time of applicant organization.

Purpose: Biodemography, the integration of demographic and biological theory and methods, provides an innovative tool for understanding the impact of aging on health and longevity. This FOA encourages applications for research combining demographic and life-science approaches for expanding the current understanding of aging/senescence, frailty and mortality. Applications should include evolutionary and life history theories as a framework for investigating individual and population-level factors that underlie changes in lifespan and healthy life expectancy, including sex and population differentials in late-life frailty and mortality.

- **Biodemography of Aging (R03)**

<http://grants.nih.gov/grants/guide/pa-files/PAR-12-080.html>

Letter of Intent Due Date: February 3, 2014

Application Due date: March 3, 2014, by 5:00 PM local time of applicant organization.

Purpose: Biodemography, the integration of demographic and biological theory and methods, provides an innovative tool for understanding the impact of aging on health and longevity. This FOA encourages applications for research combining demographic and life-science approaches for expanding the current understanding of aging/senescence, frailty and mortality. Applications should include evolutionary and life history theories as a framework for investigating individual and population-level factors that underlie changes in lifespan and healthy life expectancy, including sex and population differentials in late-life frailty and mortality.

- **Biodemography of Aging (R21)**

<http://grants.nih.gov/grants/guide/pa-files/PAR-12-079.html>

Letter of Intent Due Date: February 3, 2014

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Application Due date: March 3, 2014, by 5:00 PM local time of applicant organization.

Purpose: Biodemography, the integration of demographic and biological theory and methods, provides an innovative tool for understanding the impact of aging on health and longevity. This FOA encourages applications for research combining demographic and life-science approaches for expanding the current understanding of aging/senescence, frailty and mortality. Applications should include evolutionary and life history theories as a framework for investigating individual and population-level factors that underlie changes in lifespan and healthy life expectancy, including sex and population differentials in late-life frailty and mortality.

- **Social Neuroscience and Neuroeconomics of Aging (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PAR-11-337.html>

Letter of Intent Due Dates: N/A

Application Due dates: February 5, 2014 for new applications; March 5, 2014 (resubmission).

AIDS Application Due Dates: May 7, 2013 and May 7, 2014. Expires May 8, 2014.

Purpose: To stimulate interdisciplinary aging-relevant research in the social, affective and economic neurosciences. The NIA invites applications examining social, emotional and economic behaviors of relevance to aging, using approaches that examine mechanisms and processes at both (a) the social, behavioral or psychological (emotional, cognitive, motivational) level, and (b) the neurobiological or genetic level. Proposals are encouraged that have an overriding emphasis on economic, social or emotional processes and associated genetic or neurobiological processes. Applications should demonstrate either relevance for aging or for age differences or age-related changes in these processes. Aging-relevant applications can address issues of importance to the well-being and health of either mid-life or older adults, and can include data spanning the entire life course.

- **Social Neuroscience and Neuroeconomics of Aging (R21)**

<http://grants.nih.gov/grants/guide/pa-files/PAR-11-336.html>

Letter of Intent Due Dates: N/A

Application Due dates: February 16, 2014 for new applications; March 16, 2014 for resubmission applications).

AIDS Application Due Dates: May 7, 2014. Expires May 8, 2014.

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Purpose: To stimulate interdisciplinary aging-relevant research in the social, affective and economic neurosciences. The NIA invites applications examining social, emotional and economic behaviors of relevance to aging, using approaches that examine mechanisms and processes at both (a) the social, behavioral or psychological (emotional, cognitive, motivational) level, and (b) the neurobiological or genetic level. Proposals are encouraged that have an overriding emphasis on economic, social or emotional processes and associated genetic or neurobiological processes. Applications should demonstrate either relevance for aging or for age differences or age-related changes in these processes. Aging-relevant applications can address issues of importance to the well-being and health of either mid-life or older adults, and can include data spanning the entire life course.

- **Economics of Retirement (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-11-138.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires May 8, 2014.

Purpose: For research on the economic and health-related factors that influence older persons' choices on labor force participation as they near typical retirement age and throughout the later stages of life.

- **Economics of Retirement (R03)**

<http://grants.nih.gov/grants/guide/pa-files/PA-11-139.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires May 8, 2014.

Purpose: For research on the economic and health-related factors that influence older persons' choices on labor force participation as they near typical retirement age and throughout the later stages of life.

- **Economics of Retirement (R21)**

<http://grants.nih.gov/grants/guide/pa-files/PA-11-140.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires May 8, 2014.

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Purpose: For research on the economic and health-related factors that influence older persons' choices on labor force participation as they near typical retirement age and throughout the later stages of life.

- **Family and Interpersonal Relationships in an Aging Context (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-11-128.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires May 8, 2014.

Purpose: The objective of this research program is to expand understanding of the role of families and interpersonal relationships in the health and wellbeing of older people. This will be accomplished through increasing scientific knowledge on the effects of family and interpersonal relationships on behavioral and social processes of relevance to aging; and on how these processes change over the life course and across cohorts. A broad range of methods and approaches are encouraged.

- **Research to Help Older Adults Maintain their Health and Independence in the Community (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-11-123.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires May 8, 2014.

Purpose: For applications using the R01 award mechanism for translational research that moves evidence-based research findings towards the development of new interventions, programs, policies, practices, and tools that can be used by community-based organizations to help elderly individuals remain healthy and independent, and living in their own homes and communities. The goal of this FOA is to support translational research involving collaborations between academic research centers and community-based organizations with expertise serving the elderly (such as city and state health departments, city/town leadership councils, and Area Agencies on Aging) that will enhance our understanding of practical tools, techniques, programs and policies that communities across the nation can use to more effectively respond to needs of their aging populations.

- **Translational Research to Help Older Adults Maintain their Health and Independence in the Community (R21)**

<http://grants.nih.gov/grants/guide/pa-files/PA-11-124.html>

Letter of Intent Due Dates: N/A

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Application Due dates: Standard NIH Due Dates Apply. Expires May 8, 2014.

Purpose: For applications using the (R21) award mechanism for translational research that moves evidence-based research findings towards the development of new interventions, programs, policies, practices, and tools that can be used by community-based organizations to help elderly individuals remain healthy and independent, and living in their own homes and communities. The goal of this FOA is to support translational research involving collaborations between academic research centers and community-based organizations with expertise serving the elderly (such as city and state health departments, city/town leadership councils, and Area Agencies on Aging) that will enhance our understanding of practical tools, techniques, programs and policies that communities across the nation can use to more effectively respond to needs of their aging populations.

- **Nutrition and Diet in the Causation, Prevention, and Management of Heart Failure (R01)**

<http://grants1.nih.gov/grants/guide/pa-files/PA-11-165.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires May 8, 2014.

Purpose: This initiative issued by The National Heart, Lung, and Blood Institute (NHLBI), National Institute on Aging (NIA), and Office of Dietary Supplements (ODS), NIH, will renew a Funding Opportunity Announcement (FOA) (R01) to encourage submission of investigator-initiated research applications on the role of nutrition and diet in the causation, prevention, and treatment of cardiomyopathies and heart failure. Mechanistic, translational, and applied interdisciplinary research applications with rigorous hypothesis-testing designs for projects in humans or animals are of interest. The overall goal is to develop a satisfactory science base for rational nutritional management of patients in various stages of heart failure and for preventive approaches in high-risk individuals.

- **Nutrition and Diet in the Causation, Prevention, and Management of Heart Failure (R21)**

<http://grants.nih.gov/grants/guide/pa-files/PA-11-166.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires May 8, 2014.

Purpose: This initiative issued by the National Heart, Lung, and Blood Institute (NHLBI), National Institute on Aging (NIA), and

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Office of Dietary Supplements (ODS), NIH, will renew a Funding Opportunity Announcements (FOA) (R21) to encourage submission of exploratory or developmental research applications on the role of nutrition and diet in the causation, prevention, and treatment of cardiomyopathies and heart failure. Mechanistic, translational, and applied interdisciplinary research applications in humans or animals are of interest. The overall goal is to develop a satisfactory science base for rational nutritional management of patients in various stages of heart failure and for preventive approaches in high-risk individuals.

- **Behavioral and Social Genomics of Aging: Opportunities in the Health and Retirement Study (R01)**

Letter of Intent Due Dates: N/A

Application Due dates: Standard dates apply. Expires September 8, 2014.

<http://grants.nih.gov/grants/guide/pa-files/PA-11-318.html>

Purpose: The Health and Retirement Study (HRS see at <http://hrsonline.isr.umich.edu/>) is a longitudinal, nationally representative sample of the US population aged 50 years and older (plus spouses) with an oversample of African and Hispanic Americans and a total sample size of over 20,000. Using funds from the American Reinvestment and Recovery Act, the HRS is currently conducting genome-wide scans of DNA samples from approximately 20,000 participants, using the Illumina HumanOmni 2.5 Quad chip. It is anticipated that the genotype data for the first 13,000 subjects will be released to the public via dbGaP in the Fall of 2011, with data from the remaining participants to be released by the end of 2012. This FOA encourages applications taking advantage of the newly available genetic data to advance our understanding of how genetic, behavioral, and psychosocial factors affect the health and well-being of older Americans.

- **T1 Translational Research: Novel interventions for prevention and treatment of age-related conditions (R21)**

<http://grants.nih.gov/grants/guide/pa-files/PAS-11-280.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard dates apply. Expires September 8, 2014.

Purpose: For exploratory/developmental R21 research projects to accelerate the pace of development of novel therapeutics involving biologics, pharmacological and non-pharmacological approaches for preventing and treating key health issues affecting the elderly. For the purposes of this FOA, T1 translational research on aging is defined as the application of basic and clinical biomedical findings towards the development of new strategies for prevention and treatment of age-related pathologies. For projects proposing basic research that is being conducted in animal models, the potential to treat

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a clinical age-related pathology must be clearly stated in the proposal. Direct relevance of the data to a clinical aging condition must be established and clearly stated in the application.

- **T2 Translational Research: Research leading to new health care practices, community programs and policies affecting older persons (R21)**

<http://grants.nih.gov/grants/guide/pa-files/PAS-11-281.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard dates apply. Expires September 8, 2014.

Purpose: For exploratory/developmental R21 research projects on translational research (T2) directed towards development of health care practices, community programs and policies, including monitoring and quality improvement for pharmacological and non-pharmacological approaches for preventing and treating key health issues affecting the elderly. For the purposes of this FOA, T2 translational research on aging is defined as research to gather information needed to develop or evaluate methods of translating results from clinical studies into everyday clinical practice and health decision making (e.g., adapting an efficacious intervention for application in clinical practice and evaluating its effectiveness in different clinical settings). Methods for T2 translational research include but are not limited to intervention studies, systematic reviews, meta analysis, outcomes research and implementation research.

- **Social and Behavioral Research on the Elderly in Disasters (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-11-263.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard dates apply. Expires September 8, 2014.

Purpose: For Research Project Grant (R01) applications from institutions or organizations that propose to conduct research in the behavioral and social sciences on the consequences of natural and man-made disasters for the health and well-being of the elderly, with an ultimate goal of preventing or mitigating harmful consequences. Disasters include weather-related events, earthquakes, tsunamis, large-scale attacks on civilian populations, technological catastrophes, and pandemics.

- **Social and Behavioral Research on the Elderly in Disasters (R03)**

<http://grants.nih.gov/grants/guide/pa-files/PA-11-264.html>

Letter of Intent Due Dates: N/A

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Application Due dates: Standard dates apply. Expires September 8, 2014.

Purpose: For R03 applications from institutions or organizations that propose to conduct research in the behavioral and social sciences on the consequences of natural and man-made disasters for the health and well-being of the elderly, with an ultimate goal of preventing or mitigating harmful consequences. Disasters include weather-related events, earthquakes, tsunamis, large-scale attacks on civilian populations, technological catastrophes, and pandemics.

- **Social and Behavioral Research on the Elderly in Disasters (R21)**

<http://grants.nih.gov/grants/guide/pa-files/PA-11-265.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard dates apply. Expires September 8, 2014.

Purpose: For R21 applications from institutions or organizations that propose to conduct research in the behavioral and social sciences on the consequences of natural and man-made disasters for the health and well-being of the elderly, with an ultimate goal of preventing or mitigating harmful consequences. Disasters include weather-related events, earthquakes, tsunamis, large-scale attacks on civilian populations, technological catastrophes, and pandemics.

- **Single Cell Studies in Aging Research (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-11-320.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard dates apply. Expires September 8, 2014.

Purpose: For applications from institutions/organizations that propose to develop research on single cell biology to enhance the understanding of the mechanisms of normal aging and of age-related diseases. Applications using -omics technologies, imaging, optofluidic platforms, mass spectroscopy, whole genome sequencing, and other tools and technologies at the single cell level are encouraged since it is expected that the single cell approach will improve the determination of unique and biologically significant properties of tissues and organs during the aging process.

Although we know that cells are heterogeneous, for example they might be at different stages in the cell cycle or at different stages in tumor progression, most contemporary studies use population of cells, thus providing a limited average view of cellular and tissue function. This is due mainly to the lack of tools to study single cells. This is now

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changing. Advances in technology have made more single cell studies feasible and will convert cellular heterogeneity from a source of noise to a source of new discoveries.

- **Single Cell Studies in Aging Research (R21)**

<http://grants.nih.gov/grants/guide/pa-files/PA-11-321.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard dates apply. Expires September 8, 2014.

Purpose: For applications from institutions/organizations that propose to develop research on single cell biology to enhance the understanding of the mechanisms of normal aging and of age-related diseases. Applications using -omics technologies, imaging, optofluidic platforms, mass spectroscopy, whole genome sequencing, and other tools and technologies at the single cell level are encouraged since it is expected that the single cell approach will improve the determination of unique and biologically significant properties of tissues and organs during the aging process.

Although we know that cells are heterogeneous, for example they might be at different stages in the cell cycle or at different stages in tumor progression, most contemporary studies use population of cells, thus providing a limited average view of cellular and tissue function. This is due mainly to the lack of tools to study single cells. This is now changing. Advances in technology have made more single cell studies feasible and will convert cellular heterogeneity from a source of noise to a source of new discoveries.

- **Network Infrastructure Support for Emerging Areas of Research in the Basic Biology of Aging (R24)**

<http://grants.nih.gov/grants/guide/pa-files/PA-11-266.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard dates apply. Expires September 8, 2014.

Purpose: The purpose of this FOA is to provide infrastructure support to foster further development and integration in emerging interdisciplinary areas of research in basic biology of aging. This FOA will use the NIH Resource-Related Research Project (R24) mechanism to facilitate research networks that will advance specific scientific goals through meetings, conferences, small scale pilots, short term training opportunities (such as intensive workshops, summer institutes, or visiting scholar programs) and dissemination activities to encourage growth and development in these interdisciplinary areas.

- **Chronic Inflammation and Age-related Disease (R01)**

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<http://grants.nih.gov/grants/guide/pa-files/PAR-13-233.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard dates apply. Expires September 8, 2014.

Purpose: The participating NIH Institutes and Centers invite applications to address both the origins and the effects of low level chronic inflammation in the onset and progression of age-related diseases and conditions. Chronic inflammation, as defined by elevated levels of both local and systemic cytokines and other pro-inflammatory factors, is a hallmark of aging in virtually all higher animals including humans and is recognized as a major risk factor for developing age-associated diseases. The spectra of phenotypes capable of generating low-level chronic inflammation and their defining mediators are not clear. Further, a clear understanding of how chronic inflammation compromises the integrity of cells or tissues leading to disease progression is lacking. The role of dietary supplements and/or nutritional status in chronic inflammation in age-related disease is also poorly studied. Thus, there is a critical need to establish the knowledge base that will allow a better understanding of the complex interplay between inflammation and age-related diseases. Applications submitted to this FOA should aim to clarify the molecular and cellular basis for the increase in circulating inflammatory factors with aging, and/or shed light on the cause-effect relationship between inflammation and disease, using pre-clinical (animal or cellular based) models.

- **Macroeconomic Aspects of Population Aging (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PAR-12-186.html>

Letter of Intent Due Dates: N/A

Application Due dates: October 3, 2013; October 3, 2014, by 5:00 PM local time of applicant organization.

Purpose: This Funding Opportunity Announcement (FOA) invites research on the macroeconomics of aging - the impact of population aging on the macroeconomy and in turn how macroeconomic factors impact health and well-being.

- **Implications of the Economic Downturn for Health, Wealth, and Work at Older Ages (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-12-009.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard dates apply. Expires January 8, 2015.

Unless otherwise specified, Letters of Intent are not required, not binding, and do not enter into the review of a subsequent application.

If you would like support applying for any of these opportunities, please contact Dr. Pam Factor-Litvak, Associate Dean for Research Resources (R²) at prf1@columbia.edu.

Purpose: For research on the implications of exogenous shocks, such as those produced by the recent economic downturn, for health, economic circumstances, and planning throughout the life-cycle.

- **Mechanisms Mediating Osteoarthritis in Aging (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-12-019.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard dates apply. Expires January 8, 2015.

Purpose: The National Institute on Aging and the National Institute of Arthritis and Musculoskeletal and Skin Diseases invite applications that are intended to encourage and accelerate the characterization of new or underutilized models and the testing of hypotheses that will lead to an improved understanding of the mechanisms mediating osteoarthritic progression.

- **Mechanisms Mediating Osteoarthritis in Aging (R21)**

<http://grants.nih.gov/grants/guide/pa-files/PA-12-018.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard dates apply. Expires January 8, 2015.

Purpose: The National Institute on Aging and the National Institute of Arthritis and Musculoskeletal and Skin Diseases invite applications intended to encourage and accelerate the characterization of new or underutilized models and the testing of hypotheses that will lead to an improved understanding of the mechanisms mediating osteoarthritic progression.

- **NIA MSTEM: Advancing Diversity in Aging Research (ADAR) through Undergraduate Education (R25)**

<http://grants.nih.gov/grants/guide/pa-files/PAR-12-016.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard dates apply. Expires January 8, 2015.

Purpose: NIA MSTEM: Advancing Diversity in Aging Research (ADAR) through Undergraduate Education, encourages institutional Research Education Grant (R25) applications from institutions that propose creative and innovative research education programs to diversify the workforce in aging by (1) supporting undergraduate competency and completion in medicine, science, technology, engineering and

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mathematics) ((MSTEM) to be referred to as “NIA MSTEM fields” henceforth), as they relate to aging and, also, by (2) application and transition to graduate study that advances a cadre of students from diverse backgrounds into NIA MSTEM fields. The interests of the NIA span biological, biomedical, behavioral, clinical and social sciences research across the lifespan with a focus on processes of aging through midlife and into old age. This FOA is part of NIA's coordinated effort to (a) fill a gap in the pipeline transitioning from undergraduate to graduate education in aging as it relates to medicine, science, technology, engineering, and mathematics and to (b) fulfill the objectives of the NIA Health Disparities Strategic Plan <http://www.nia.nih.gov/AboutNIA/HealthDisparities>. Evaluation metrics for participants may include graduation rates in these fields, as well as application and enrollment in aging-related and doctoral programs in these fields.

- **Multidisciplinary Studies of HIV/AIDS and Aging (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PAR-12-175.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires April 8, 2015.

Purpose: For applications proposing to study HIV infection, HIV-associated conditions, HIV treatment, and/or biobehavioral or social factors associated with HIV/AIDS in the context of aging and/or in older adults. Research approaches of interest include clinical translational, observational, and intervention studies in domestic and international settings.

- **Multidisciplinary Studies of HIV/AIDS and Aging (R03)**

<http://grants.nih.gov/grants/guide/pa-files/PAR-12-176.html>

Letter of Intent Due Dates: N/A

Application Due dates: December 6, 2013; April 9, 2014; August 7, 2014; December 9, 2014; April 7, 2015, by 5:00 PM local time of applicant organization. Expires April 8, 2015.

Purpose: For applications proposing to study HIV infection, HIV-associated conditions, HIV treatment, and/or biobehavioral or social factors associated with HIV/AIDS in the context of aging and/or in older adults. Research approaches of interest include clinical translational, observational, and intervention studies in domestic and international settings.

- **Multidisciplinary Studies of HIV/AIDS and Aging (R21)**

<http://grants.nih.gov/grants/guide/pa-files/PAR-12-174.html>

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Letter of Intent Due Dates: N/A

Application Due dates: December 6, 2013; April 9, 2014; August 7, 2014; December 9, 2014; April 7, 2015, by 5:00 PM local time of applicant organization. Expires April 8, 2015.

Purpose: For applications proposing to study HIV infection, HIV-associated conditions, HIV treatment, and/or biobehavioral or social factors associated with HIV/AIDS in the context of aging and/or in older adults. Research approaches of interest include clinical translational, observational, and intervention studies in domestic and international settings.

- **Translational Research at the Aging/Cancer Interface (TRACI) (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-12-136.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires May 8, 2015.

Purpose: For translational research proposals in the overlapping areas of human aging and cancer, linking basic and clinical research relevant to the care of older cancer patients through both bench-to-bedside and bedside-to-bench approaches. Ultimately, information from the research supported by this initiative should improve the health and well-being of elderly patients at risk for, or diagnosed with, cancer and decrease the functional impairment and morbidity associated with cancer in this population.

- **Translational Research at the Aging/Cancer Interface (TRACI) (R21)**

<http://grants.nih.gov/grants/guide/pa-files/PA-12-135.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires May 8, 2015.

Purpose: For translational research proposals in the overlapping areas of human aging and cancer, linking basic and clinical research relevant to the care of older cancer patients through both bench-to-bedside and bedside-to-bench approaches. Ultimately, information from the research supported by this initiative should improve the health and well-being of elderly patients at risk for, or diagnosed with, cancer and decrease the functional impairment and morbidity associated with cancer in this population.

- **Juvenile Protective Factors and Their Effects on Aging (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PAR-12-218.html>

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Application Due dates: New Applications: Feb 5, 2013; June 5, 2013, Feb 5, 2014, June 5, 2014, February 5, 2015.

Resubmission/Revision Applications: March 5, 2013; July 5, 2013; March 5, 2014; July 5, 2014; March 5, 2015; July 5, 2015. Expires July 6, 2015.

Purpose: The purpose of this FOA is to invite both descriptive studies to identify putative juvenile protective factors, experimental studies to test hypotheses about their effects on aging, and translational studies to explore the potential risks and benefits of maintaining or modulating the level of juvenile protective factors in adult life. Juvenile protective factors are physiological factors that maintain or enhance certain functions across all or some stages of post-natal maturation, but which diminish or disappear during transitions between developmental stages (e.g., infancy, adiposity rebound, adrenarche, puberty, growth cessation). This FOA is uniquely focused on studies which involve comparisons between post-natal developmental stages or pre- vs. post-maturational changes to identify potential juvenile protective factors and their effects on aging. Studies in in vitro models, in laboratory animals or in humans may be proposed.

- **Estimating the Economic Costs of Alzheimers Disease and Related Dementias (R01) (NIH)**

<http://grants.nih.gov/grants/guide/pa-files/PA-12-255.html>

Application Due dates: Standard NIH Due Dates Apply. Expires September 8, 2015.

Purpose: Alzheimers disease and other forms of dementia are widely believed to impose great economic costs on society, but the magnitude of those costs is unclear. This Funding Opportunity Announcement (FOA) encourages research on the economic costs of Alzheimers disease and related dementias, including direct and indirect costs to public and private health care payers, families and other informal caregivers, as well as labor market costs from reduced productivity or labor force participation.

- **Estimating the Economic Costs of Alzheimers Disease and Related Dementias (R21) (NIH)**

<http://grants.nih.gov/grants/guide/pa-files/PA-12-254.html>

Application Due dates: Standard NIH Due Dates Apply. Expires September 8, 2015.

Purpose: Alzheimers disease and other forms of dementia are widely believed to impose great economic costs on society, but the magnitude of those costs is unclear. This Funding Opportunity Announcement (FOA) encourages research on the economic costs of Alzheimers disease and related dementias, including direct and indirect costs to

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public and private health care payers, families and other informal caregivers, as well as labor market costs from reduced productivity or labor force participation.

- **Estimating the Economic Costs of Alzheimers Disease and Related Dementias (R03) (NIH)**

<http://grants.nih.gov/grants/guide/pa-files/PA-12-253.html>

Application Due dates: Standard NIH Due Dates Apply. Expires September 8, 2015.

Purpose: Alzheimer's disease and other forms of dementia are widely believed to impose great economic costs on society, but the magnitude of those costs is unclear. This Funding Opportunity Announcement (FOA) encourages research on the economic costs of Alzheimer's disease and related dementias, including direct and indirect costs to public and private health care payers, families and other informal caregivers, as well as labor market costs from reduced productivity or labor force participation.

- **Renal Function and Chronic Kidney Disease in Aging (R01) (NIH)**

<http://grants.nih.gov/grants/guide/pa-files/PA-12-211.html>

Application Due dates: Standard NIH Due Dates Apply. Expires September 8, 2015.

Purpose: For applications that propose basic, clinical, and translational research on chronic kidney disease (CKD) and its consequences in aging and in older persons. Applications should focus on the 1) biology and pathophysiology of CKD in animal models; 2) etiology and pathophysiology of CKD in older adults; 3) epidemiology and risk factors for the development of CKD with advancing age; and/or 4) diagnosis, medical management and clinical outcomes of CKD in this population. Research supported by this initiative should enhance knowledge of CKD and its consequences in older adults and provide evidence-based guidance in the diagnosis, prevention, and treatment of CKD in older persons.

- **Renal Function and Chronic Kidney Disease in Aging (R21) (NIH)**

<http://grants.nih.gov/grants/guide/pa-files/PA-12-210.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires September 8, 2015.

Purpose: For applications that propose basic, clinical, and translational research on chronic kidney disease (CKD) and its consequences in aging and in older persons. Applications should focus on the 1) biology and pathophysiology of CKD in animal models; 2) etiology and pathophysiology of CKD in older adults; 3) epidemiology and risk

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factors for the development of CKD with advancing age; and/or 4) diagnosis, medical management and clinical outcomes of CKD in this population. Research supported by this initiative should enhance knowledge of CKD and its consequences in older adults and provide evidence-based guidance in the diagnosis, prevention, and treatment of CKD in older persons.

- **Fatigability, Activity Limitations, and Bioenergetics in Aging (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-12-227.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires September 8, 2015.

Purpose: Fatigability is defined as fatigue in the context of activity level. This FOA invites applications proposing to 1) investigate the role of specific bioenergetic factors in increased fatigability, reduced activity, and diminished sense of well-being in older persons; 2) test the effects of interventions targeted at such factors on performance capabilities, functional status, and other outcomes that relate to quality of life; or 3) develop and evaluate measures of fatigability applicable for observational and/or interventional studies.

- **Fatigability, Activity Limitations, and Bioenergetics in Aging (R03)**

<http://grants.nih.gov/grants/guide/pa-files/PA-12-226.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires September 8, 2015.

Purpose: Fatigability is defined as fatigue in the context of activity level. This FOA invites applications proposing to 1) investigate the role of specific bioenergetic factors in increased fatigability, reduced activity, and diminished sense of well-being in older persons; 2) test the effects of interventions targeted at such factors on performance capabilities, functional status, and other outcomes that relate to quality of life; or 3) develop and evaluate measures of fatigability applicable for observational and/or interventional studies.

- **Fatigability, Activity Limitations, and Bioenergetics in Aging (R21)**

<http://grants.nih.gov/grants/guide/pa-files/PA-12-225.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires September 8, 2015.

Unless otherwise specified, Letters of Intent are not required, not binding, and do not enter into the review of a subsequent application.

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Purpose: Fatigability is defined as fatigue in the context of activity level. This FOA invites applications proposing to 1) investigate the role of specific bioenergetic factors in increased fatigability, reduced activity, and diminished sense of well-being in older persons; 2) test the effects of interventions targeted at such factors on performance capabilities, functional status, and other outcomes that relate to quality of life; or 3) develop and evaluate measures of fatigability applicable for observational and/or interventional studies.

- **Pain in Aging (R01) (NIH)**

<http://grants.nih.gov/grants/guide/pa-files/PA-13-058.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires: January 8, 2016.

Purpose: For Research Project Grant (R01) applications from institutions/organizations that propose to study pain from an aging perspective, including studies of older populations, studies of age differences and age-related changes in pain processes and experiences, and studies of pain treatment and management in older adults. This FOA particularly encourages studies on 1) mechanisms and predictors of pain experience in aging, 2) development and evaluation of pain assessment tools for older adults or older model organisms, and 3) development and evaluation of pain management strategies in older adults, with particular attention to the challenges associated with treating pain in patients with multiple morbidities. Studies may address a variety of approaches and outcomes including biological (i.e., genetic, molecular, neurobiological), clinical, behavioral, psychological, and social factors. Both animal models (especially aged animals) and human subjects are appropriate for this FOA.

- **Pain in Aging (R03) (NIH)**

<http://grants.nih.gov/grants/guide/pa-files/PA-13-060.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires: January 8, 2016.

Purpose: For Small Grant (R03) applications from institutions/organizations that propose to study pain from an aging perspective, including studies of older populations, studies of age differences and age-related changes in pain processes and experiences, and studies of pain treatment and management in older adults. This FOA particularly encourages studies on 1) mechanisms and predictors of pain experience in aging, 2) development and evaluation of pain assessment tools for older adults or older model organisms, and 3) development and evaluation of pain management strategies in older adults, with particular attention to the challenges associated with treating pain in patients with multiple morbidities. Studies may address a variety of approaches and outcomes

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including biological (i.e., genetic, molecular, neurobiological), clinical, behavioral, psychological, and social factors. Both animal models (especially aged animals) and human subjects are appropriate for this FOA.

- **Pain in Aging (R21) (NIH)**

<http://grants.nih.gov/grants/guide/pa-files/PA-13-059.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires: January 8, 2016.

Purpose: For Small Grant (R03) applications from institutions/organizations that propose to study pain from an aging perspective, including studies of older populations, studies of age differences and age-related changes in pain processes and experiences, and studies of pain treatment and management in older adults. This FOA particularly encourages studies on 1) mechanisms and predictors of pain experience in aging, 2) development and evaluation of pain assessment tools for older adults or older model organisms, and 3) development and evaluation of pain management strategies in older adults, with particular attention to the challenges associated with treating pain in patients with multiple morbidities. Studies may address a variety of approaches and outcomes including biological (i.e., genetic, molecular, neurobiological), clinical, behavioral, psychological, and social factors. Both animal models (especially aged animals) and human subjects are appropriate for this FOA.

- **Potential Effects of Metformin on Aging and Age-Related Conditions: Small-Scale Clinical Studies and Secondary Analysis of Controlled Clinical Studies (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-12-271.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires January 8, 2016.

Purpose: Emerging data from clinical studies of metformin in a variety of patient populations suggest that it may have other effects, besides being an antihyperglycemic agent, which warrant further attention in translational aging research. The objective of this FOA is to support research projects (R01) that include small-scale physiologic studies in humans or secondary analyses of data and/or stored biospecimens from controlled clinical intervention studies, to increase our understanding about the clinical translational potential of metformin to delay deleterious aging changes or to extend healthy human life span. This includes identification of specific populations particularly likely to benefit, and/or to obtain information on metformin's human physiologic and cellular effects that would be useful in identifying novel molecular targets.

- **Solid Organ Transplantation: Older Donors and Recipients (R01)**

Unless otherwise specified, Letters of Intent are not required, not binding, and do not enter into the review of a subsequent application.

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<http://grants.nih.gov/grants/guide/pa-files/PA-13-030.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires January 8, 2016.

Purpose: For applications that propose basic, clinical, translational, epidemiological and outcomes research on solid organ transplant (SOT) in older persons. Research may focus on, but is not limited to 1) appropriate selection of older SOT donors and recipients; 2) improved management of older SOT recipients; 3) immunology and immunosuppression pertaining to older SOT patients; and 4) healthcare disparities, utilization and costs of SOT in older patients. Research supported by this initiative is expected to enhance knowledge of immunobiology in aging and transplantation, and to provide evidence-based guidance to improve access to transplantation, organ allocation and utilization, graft survival, and short- and long-term outcomes of SOT in older persons.

- **Solid Organ Transplantation: Older Donors and Recipients (R03)**

<http://grants.nih.gov/grants/guide/pa-files/PA-13-037.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires January 8, 2016.

Purpose: For applications that propose basic, clinical, translational, epidemiological and outcomes research on solid organ transplant (SOT) in older persons. Research may focus on, but is not limited to 1) appropriate selection of older SOT donors and recipients; 2) improved management of older SOT recipients; 3) immunology and immunosuppression pertaining to older SOT patients; and 4) healthcare disparities, utilization and costs of SOT in older patients. Research supported by this initiative is expected to enhance knowledge of immunobiology in aging and transplantation, and to provide evidence-based guidance to improve access to transplantation, organ allocation and utilization, graft survival, and short- and long-term outcomes of SOT in older persons.

- **Solid Organ Transplantation: Older Donors and Recipients (R21)**

<http://grants.nih.gov/grants/guide/pa-files/PA-13-038.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires January 8, 2016.

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Purpose: For applications that propose basic, clinical, translational, epidemiological and outcomes research on solid organ transplant (SOT) in older persons. Research may focus on, but is not limited to 1) appropriate selection of older SOT donors and recipients; 2) improved management of older SOT recipients; 3) immunology and immunosuppression pertaining to older SOT patients; and 4) healthcare disparities, utilization and costs of SOT in older patients. Research supported by this initiative is expected to enhance knowledge of immunobiology in aging and transplantation, and to provide evidence-based guidance to improve access to transplantation, organ allocation and utilization, graft survival, and short- and long-term outcomes of SOT in older persons.

- **Secondary Analyses of Existing Data Sets and Stored Biospecimens to Address Clinical Aging Research Questions (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-13-168.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires May 8, 2016.

Purpose: This funding opportunity announcement (FOA) invites applications employing secondary analysis of existing data sets or stored biospecimens, to address clinically-related issues on aging changes influencing health across the life span, and/or on diseases and disabilities in older persons. This FOA will support activities addressing specific hypotheses in clinical aging research and/or to inform the design and implementation of future epidemiologic or human intervention studies, or current geriatric practice in maintenance of health, management of disease, and prevention of disability. Existing data sets may also be used to develop and test new statistical analytical approaches. Costs for archiving of data to be made publicly available may be included in the budget, as long as the archival activities are pertinent to the proposed secondary analyses.

- **Acute Kidney Injury in Older Adults (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-13-141.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires May 8, 2016.

Purpose: This Funding Opportunity Announcement (FOA) invites applications that propose basic, clinical, translational and outcomes research on acute kidney injury (AKI) in older persons. Applications may focus on the 1) epidemiology, etiology and risk factors for AKI in older adults, 2) pathophysiology of AKI in the aging kidney and its impact on chronic kidney disease (CKD) and other organ disease 3) early detection, diagnosis and monitoring of AKI, and 4) prevention, treatment and management

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strategies of AKI in older patients with the goal of improving short- and long-term outcomes including morbidity, mortality, progression of CKD, functional independence and quality of life. Research supported by this initiative should enhance knowledge of the increasing incidence of AKI in older persons and its consequences and provide evidence-based guidance in the diagnosis, prevention, and treatment of AKI in this expanding segment of the population. Studies in both human subjects and animal models are appropriate under this FOA as warranted by the study questions.

- **Acute Kidney Injury in Older Adults (R03)**

<http://grants.nih.gov/grants/guide/pa-files/PA-13-142.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires May 8, 2016.

Purpose: This Funding Opportunity Announcement (FOA) invites applications that propose basic, clinical, translational and outcomes research on acute kidney injury (AKI) in older persons. This funding initiative supports small research projects that can be carried out in a short period of time with limited resources including pilot and feasibility studies, secondary analysis of existing data; small, self-contained research projects; development of research methodology; and development of new research technology. Applications may focus on the 1) epidemiology, etiology and risk factors for AKI in older adults, 2) pathophysiology of AKI in the aging kidney and its impact on chronic kidney disease (CKD) and other organ disease 3) early detection, diagnosis and monitoring of AKI, and 4) prevention, treatment and management strategies of AKI in older patients with the goal of improving short- and long-term outcomes including morbidity, mortality, progression of CKD, functional independence and quality of life. Research supported by this initiative should enhance knowledge of the increasing incidence of AKI in older persons and its consequences and provide evidence-based guidance in the diagnosis, prevention, and treatment of AKI in this expanding segment of the population. Studies in both human subjects and animal models are appropriate under this FOA as warranted by the study questions.

- **Acute Kidney Injury in Older Adults (R21)**

<http://grants.nih.gov/grants/guide/pa-files/PA-13-143.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires May 8, 2016.

Purpose: This Funding Opportunity Announcement (FOA) invites applications that propose basic, clinical, translational and outcomes research on acute kidney injury (AKI) in older persons. The R21 mechanism is intended to encourage exploratory and developmental research projects by providing support for the early and conceptual

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stages of these projects. These studies may involve considerable risk but may lead to a breakthrough in a particular area, or to the development of novel techniques, agents, methodologies, models, or applications that could have a major impact on a field of biomedical, behavioral, or clinical research. Applications may focus on the 1) epidemiology, etiology and risk factors for AKI in older adults, 2) pathophysiology of AKI in the aging kidney and its impact on chronic kidney disease (CKD) and other organ disease 3) early detection, diagnosis and monitoring of AKI, and 4) prevention, treatment and management strategies of AKI in older patients with the goal of improving short- and long-term outcomes including morbidity, mortality, progression of CKD, functional independence and quality of life. Research supported by this initiative should enhance knowledge of the increasing incidence of AKI in older persons and its consequences and provide evidence-based guidance in the diagnosis, prevention, and treatment of AKI in this expanding segment of the population. Studies in both human subjects and animal models are appropriate under this FOA as warranted by the study questions.

- **Building Evidence: Effective Palliative/End of Life Care Interventions (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-13-289.html>

Letter of Intent Due Date(s): 30 days prior to the application due date

Application Due Dates: October 8, 2013, June 9, 2014, October 8, 2014, June 9, 2015, October 8, 2015, June 9, 2016 (including AIDS and AIDS-related applications). Expires June 10, 2016.

Purpose: This funding opportunity announcement (FOA) seeks to stimulate research that develops and tests optimal palliative care and end-of-life (PCEOL) interventions/models of care that are based on measurable outcomes. It is an urgent need for all with Life Limiting Illnesses (LLI's), including those who are culturally diverse or belong to older age groups, to develop PCEOL interventions and models of care for efficacy and effectiveness. Many individuals with LLI's also may concurrently be dealing with Multiple Complex Co-morbidities (MCC's), which place an increasing burden on health, health systems and costs... The purpose of this FOA is to (a) stimulate research on optimal palliative care and end-of-life interventions and care models based on measurable outcomes and (b) standardize such interventions across outcomes, programs and settings in order to achieve synchrony and the ability to pool data as needed for subsequent analyses that can substantiate the directions and domains of scientific growth in this area.

- **Regional and International Differences in Health and Longevity at Older Ages (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-13-125.html>

Letter of Intent Due Dates: N/A

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Application Due dates: Opens May 5, 2013. Standard NIH Due Dates Apply. Expires September 8, 2016.

Purpose: For Research Project Grant (R01) applications from institutions/organizations proposing to advance knowledge on the reasons behind the divergent trends that have been observed in health and longevity at older ages, both across industrialized nations and across geographical areas in the United States. This FOA is intended to capitalize on provocative findings in the literature which have been insufficiently understood and addressed. This FOA is also intended to capitalize on NIA's investment in the development of cross-nationally comparable datasets that can be harnessed to study these research questions; these include the Health and Retirement Study (HRS), the English Longitudinal Study on Ageing (ELSA), the Survey of Health, Ageing and Retirement in Europe (SHARE), and the Human Mortality Data Base. Applications proposing secondary analysis, new data collection, calibration of measures across studies, development of innovative survey measures, and linkages to administrative sources are encouraged. Applications are not restricted to projects using the NIA-supported datasets above and may propose research using any relevant data.

- **NIA Program Project Applications (P01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-13-258.html>

Letter of Intent Due Dates: 30 days before the application due date

Application Due dates: January 27, 2014, May 27, 2014, January 26, 2015, May 26, 2015, January 28 2016, May 25, 2016.

AIDS and AIDS-related: May 7, 2014, September 8, 2014, May 7, 2015, September 8, 2015, May 9, 2016, September 7, 2016. Expires September 8, 2016.

Purpose: This Funding Opportunity Announcement (FOA) invites Program Project applications (P01) that address the mission of NIA as outlined in the Background section above. Investigators are encouraged to visit the NIA website for additional information about the research mission and high-priority research areas of the NIA at <http://www.nia.nih.gov/research/dea/program-project-p01-policies-and-guidelines>. The purpose of Program Project (P01) grants is to support integrated, multiproject research programs that have a well-defined, central research focus or objective. The P01 is a confederation of interrelated research projects, each capable of standing on its own scientific merit but complementing one another. The P01 application must include a minimum of three individual research projects that contribute to the program objective. The individual research projects should reflect a distinct, separate, scientifically meritorious research effort led by independent investigators, the project leaders. In addition, the individual projects should be clearly interrelated and synergistic so that the research ideas, efforts, and outcomes of the program as a whole will offer a distinct advantage over pursuing the individual projects separately. The program project must also include an administrative core to manage day-to-day activities across the program

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project, communications among project and core leaders, contractual activities (if any), and other overall program project activities, such as leadership meetings. The administrative core leader must be a Program Director/Principal Investigator (PD/PI) of the program project, and the PD/PI of the overall project must also be a PD/PI of at least one project within the P01. In addition to individual research projects and the administrative core, applicants may propose one or more shared resource cores if needed for the proposed research. Each shared resource core must be utilized by two or more projects within the program. New cores may be proposed and/or existing cores may be augmented to support the proposed research.

- **Regional and International Differences in Health and Longevity at Older Ages (R03)**

<http://grants.nih.gov/grants/guide/pa-files/PA-13-123.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires September 8, 2016.

Purpose: For Small Grant (R03) applications from institutions/organizations proposing to advance knowledge on the reasons behind the divergent trends that have been observed in health and longevity at older ages, both across industrialized nations and across geographical areas in the United States. This FOA is intended to capitalize on provocative findings in the literature which have been insufficiently understood and addressed. This FOA is also intended to capitalize on NIA's investment in the development of cross-nationally comparable datasets that can be harnessed to study these research questions; these include the Health and Retirement Study (HRS), the English Longitudinal Study on Ageing (ELSA), the Survey of Health, Ageing and Retirement in Europe (SHARE), and the Human Mortality Data Base. Applications proposing secondary analysis, calibration of measures across studies, development of innovative survey measures, and linkages to administrative sources are encouraged. Applications are not restricted to projects using the NIA-supported datasets above and may propose research using any relevant data.

- **Development and Characterization of Animal Models for Aging Research (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-13-155.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires September 8, 2016.

Purpose: The purpose of this announcement is to promote research that develops, characterizes, refines, and enhances model systems for research on aging.

- **Development and Characterization of Animal Models for Aging Research (R21)**

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<http://grants.nih.gov/grants/guide/pa-files/PA-13-156.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires September 8, 2016.

Purpose: The purpose of this announcement is to promote research that develops, characterizes, refines, and enhances model systems for research on aging.

- **The Role of the Cytoskeleton in Cellular Aging (R21/R33)**

<http://grants.nih.gov/grants/guide/pa-files/PAR-13-301.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires September 8, 2016.

Purpose: The purpose of this FOA is to stimulate the development of innovative research strategies aimed at increasing the understanding of the molecular and cellular changes in the cytoskeleton that occur during the aging process. Applications considering the effect of age on factors such as cytoskeleton structure and function, the impact of the cytoskeleton on intracellular organelle interactions, and signaling or regulatory molecules controlling cellular architecture are encouraged. There is also interest in studying the role of the cytoskeleton in nuclear-cytoplasmic communications, and in spatio-temporal relationships during the aging process and in age-related diseases.

- **Regional and International Differences in Health and Longevity at Older Ages (R21)**

<http://grants.nih.gov/grants/guide/pa-files/PA-13-124.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires September 8, 2016.

Purpose: For Exploratory/Developmental Research Grant Award (R21) applications from institutions/organizations proposing to advance knowledge on the reasons behind the divergent trends that have been observed in health and longevity at older ages, both across industrialized nations and across geographical areas in the United States. This FOA is intended to capitalize on provocative findings in the literature which have been insufficiently understood and addressed. This FOA is also intended to capitalize on NIA's investment in the development of cross-nationally comparable datasets that can be harnessed to study these research questions; these include the Health and Retirement Study (HRS), the English Longitudinal Study on Ageing (ELSA), the Survey

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of Health, Ageing and Retirement in Europe (SHARE), and the Human Mortality Data Base. Applications proposing secondary analysis, calibration of measures across studies, development of innovative survey measures, and linkages to administrative sources are encouraged. Applications are not restricted to projects using the NIA-supported datasets above and may propose research using any relevant data.

- **Aging Studies in the Pulmonary System (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-13-255.html>

Letter of Intent Due Dates: N/A

Application Due Dates: Standard NIH Due Dates Apply. Expires September 8, 2016.

Purpose: The purpose of this Funding Opportunity Announcement (FOA) is to promote research to explore age-associated mechanisms in pulmonary physiology, pathology and function, and their relationship to respiratory conditions and diseases that commonly occur in older populations. Additional information about the background and scope of this opportunity can be found in the funding opportunity announcement.

- **Research to Characterize and Reduce Stigma to Improve Health (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-13-248.html>

Letter of Intent Due Dates: N/A

Application Due Dates: Standard NIH Due Dates Apply. Expires September 8, 2016.

Purpose: This Funding Opportunity Announcement (FOA) encourages research grant applications to characterize the role of stigma in health, life course development, and aging, both in the U.S. and globally, and to test interventions to prevent or reduce the impact of stigma at the individual, community, health care system, and policy levels. The goal of this FOA is to promote research addressing the health-related aspects of stigma, including the etiology and perpetuation of stigma; its impact on physical and mental health, well-being, life course development, and aging; its influence on health behaviors and on use, access to, and quality of received healthcare services; its contribution to health disparities affecting vulnerable demographic groups; and intervention strategies to reduce health-related stigma and/or the negative health and life course developmental impacts of stigma.

- **Research to Characterize and Reduce Stigma to Improve Health (R03)**

<http://grants.nih.gov/grants/guide/pa-files/PA-13-247.html>

Letter of Intent Due Dates: N/A

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Application Due Dates: Standard NIH Due Dates Apply. Expires September 8, 2016.

Purpose: This Funding Opportunity Announcement (FOA) encourages research grant applications to characterize the role of stigma in health, life course development, and aging, both in the U.S. and globally, and to test interventions to prevent or reduce the impact of stigma at the individual, community, health care system, and policy levels. The goal of this FOA is to promote research addressing the health-related aspects of stigma, including the etiology and perpetuation of stigma; its impact on physical and mental health, well-being, life course development, and aging; its influence on health behaviors and on use, access to, and quality of received healthcare services; its contribution to health disparities affecting vulnerable demographic groups; and intervention strategies to reduce health-related stigma and/or the negative health and life course developmental impacts of stigma.

- **Research to Characterize and Reduce Stigma to Improve Health (R21)**

<http://grants.nih.gov/grants/guide/pa-files/PA-13-247.html>

Letter of Intent Due Dates: N/A

Application Due Dates: Standard NIH Due Dates Apply. Expires September 8, 2016.

Purpose: This Funding Opportunity Announcement (FOA) encourages research grant applications to characterize the role of stigma in health, life course development, and aging, both in the U.S. and globally, and to test interventions to prevent or reduce the impact of stigma at the individual, community, health care system, and policy levels. The goal of this FOA is to promote research addressing the health-related aspects of stigma, including the etiology and perpetuation of stigma; its impact on physical and mental health, well-being, life course development, and aging; its influence on health behaviors and on use, access to, and quality of received healthcare services; its contribution to health disparities affecting vulnerable demographic groups; and intervention strategies to reduce health-related stigma and/or the negative health and life course developmental impacts of stigma.

- **Audacious Goals Initiative High Priority Research Area: Intersection of Aging and Biological Mechanisms of Eye Disease (R01)**

<http://grants.nih.gov/grants/guide/pa-files/PA-13-332.html>

Letter of Intent Due Dates: N/A

Application Due dates: Standard NIH Due Dates Apply. Expires January 8, 2017.

Purpose: The purpose of this Funding Opportunity Announcement (FOA) for the National Eye Institute (NEI) is to encourage submission of new, innovative projects directed to exploring this area through: 1) understanding how the biology of aging

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contributes to disease; 2) evaluating how the failure of homeostatic processes causes or allows the transition from aging to early disease; 3) defining the biological staging of disease to understand pathophysiology, identify biomarkers, and explore therapy; and 4) distinguishing normal ocular changes associated with aging from pathophysiologic changes. Advanced age is a risk factor for many of the leading causes of vision loss, including age-related macular degeneration, cataract, glaucoma, diabetic retinopathy, dry eye syndrome, and presbyopia. Better knowledge of the biological mechanisms of disease will lead to new strategies to prevent or delay progress of these age-related blinding conditions. An application may propose design-directed, developmental, discovery-driven, or hypothesis-driven research. It is appropriate to propose small, multidisciplinary teams applying an integrative approach to solve these problems.

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