

National Institute on Aging Funding Opportunities for Early Career Investigators

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Division of Geriatrics and Clinical Gerontology, NIA, NIH

U13 Embedding/Sustaining Function Meeting, Pentagon City, VA

February 1, 2019

Tips and Advice on NIH Grants and How the NIA Can Help Fund your Research

- A little about the NIH and the ***National Institute on Aging***
- Understanding and navigating the NIA/NIH System
- Funding Opportunities at NIA
 - Which is the right grant for you
 - Who does what at NIA
- General Tips on Career Development Awards
- Grantwriting
- Resources

Understand NIH: Find the Right Fit....



National Institute
on Aging



Where's the Money?

- NIH is made up of 27 institutes and centers (ICs)
- ICs award >80% of the NIH budget each year
- Each IC has a budget and a director, and their own review for training grants, conference grants, and RFAs
- NHLBI had 3x budget of NIA and higher score payline for K grants, but your score may not be as high if aging not appreciated
- Funding is not shared between ICs for research grants

Institute and Center Missions and Priorities

- Focus on a specific disease area, organ system, or stage of life
- Understand the IC Mission and Strategic Directions, Priorities
- Use Matchmaker tool in NIH RePORTER for suggestions
- Consult your mentor
- **Speak with program officials BEFORE you submit**

NIH Institutes and Centers

NCI

NEI

NHLBI

NHGRI

NIA

NIAAA

NIAID

NIAMS

NIBIB

NICHD

NIDCD

NIDCR

NIDDK

NIDA

NIEHS

NIGMS

NIMH

NIMHD

NINDS

NINR

NLM

CC

CIT

CSR

FIC

NCATS

NCCIH

OD

NIA's Mission

NIH

National Institute
on Aging

- Support and conduct genetic, biological, clinical, behavioral, social, and economic **research** on aging.
 - ***Aging processes***, *How do aging-associated changes in physiology affect predisposition to, and outcome from, specific diseases and conditions and their combination? (Across the entire lifespan)*
 - ***Conditions of aging***, *What are the optimal strategies for diagnosing and managing age-related diseases and conditions along with comorbidities?*
 - **HFpEF, CKD, Afib, etc.**
 - ***Needs/care of aged*** *How do entities such as comorbidity, polypharmacy, and geriatric syndromes (e.g. frailty, sarcopenia, vascular stiffness) affect the care and procedural risk of older adults?*
- Foster the **development** of research and clinician scientists in aging.
- Provide research **resources**.
- **Disseminate information** about aging and advances in research **to the public**, health care professionals, and the scientific community, among a variety of audiences.

Aging Well in the 21st Century:

Strategic Directions for Research on Aging

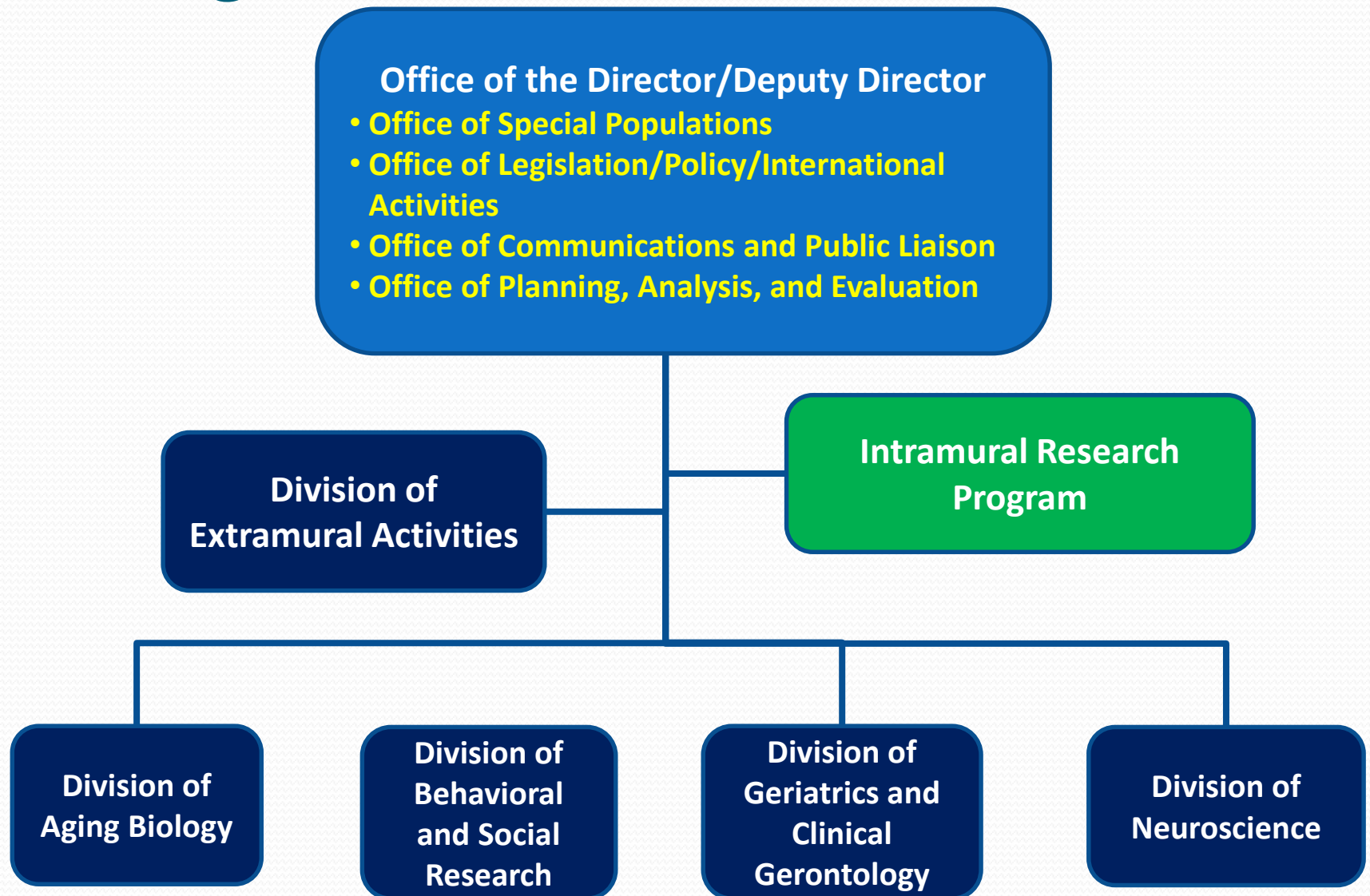


ONLINE ONLY

<https://www.nia.nih.gov/about/strategic-directions-2016>

<https://www.nia.nih.gov/about/mission>

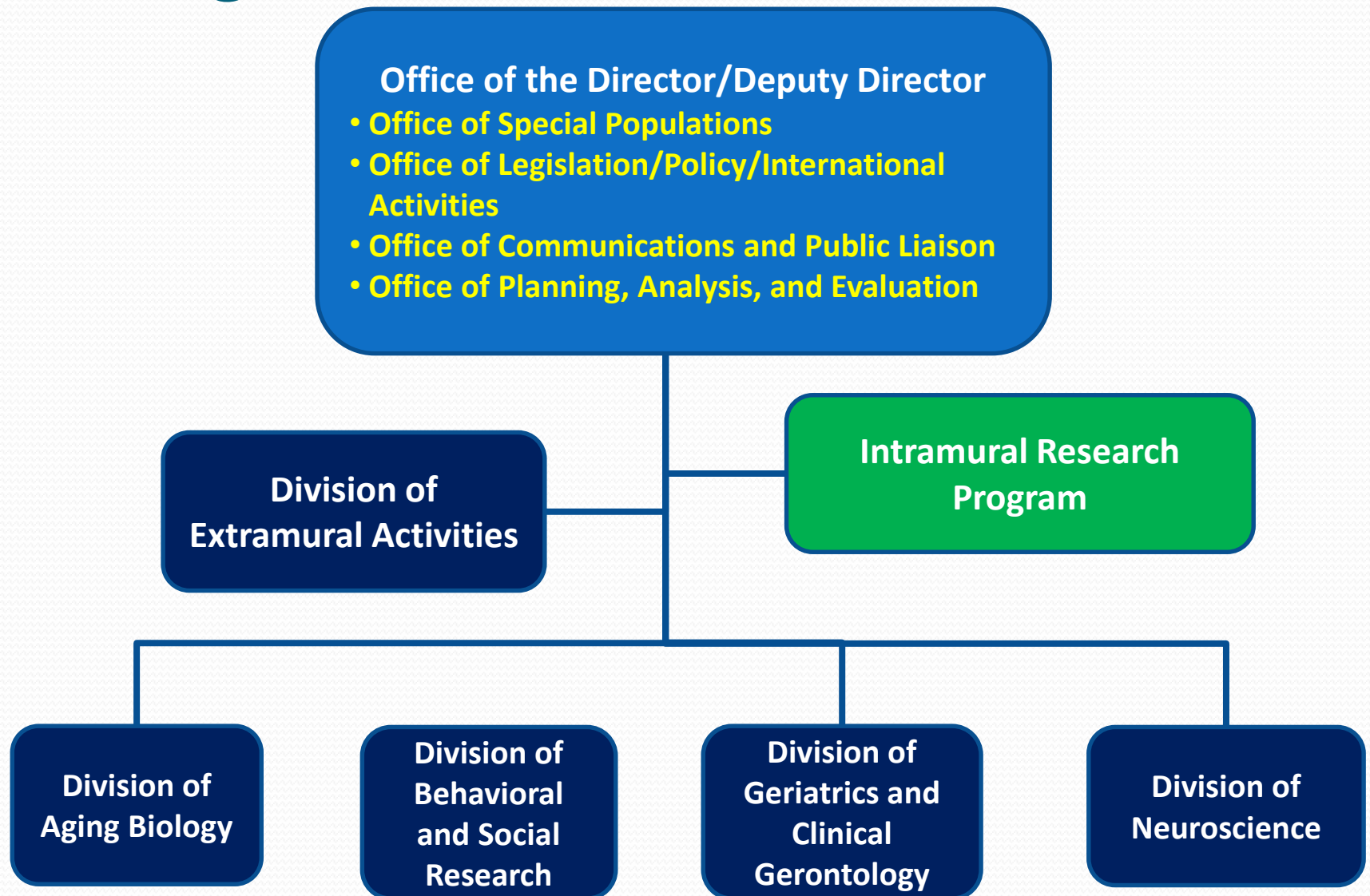
NIA Organizational Structure



Office of Special Populations

- Health disparities are associated with a broad, complex, and interrelated array of factors. Diagnosis, progression, response to treatment, caregiving, and overall quality of life may each be affected by race, ethnicity, gender, socioeconomic status (SES), age, education, occupation, and other as yet unknown lifetime and lifestyle differences.
- The NIA Office of Special Populations works across the Institute to support and strengthen our mission in understanding and redressing health disparities for older women, minorities, and persons with disabilities in aging research.

NIA Organizational Structure



Division of Geriatrics & Clinical Gerontology

Geriatrics Branch

- Geriatric conditions
- Transitions of care
- MCC
- Falls
- Specialty areas in older patients (HIV, CA, CVD)
- Geriatric syndromes- frailty, UI, sarcopenia, falls
- Pepper Centers

**Basil Eldadah, Sue Ziemann,
Marcel Salive, Lyndon Joseph**

Clinical Gerontology Branch

- Aging changes throughout the lifespan
- Genetic/omics
- Nutrition
- Longitudinal Cohort (Bogalusa Heart Study)
- Exercise
- Predictive/ Protective Factors of aging
- Aging targeted therapies

**Chhanda Dutta, Giovanna Zappala,
Nalini Raghavachari,**

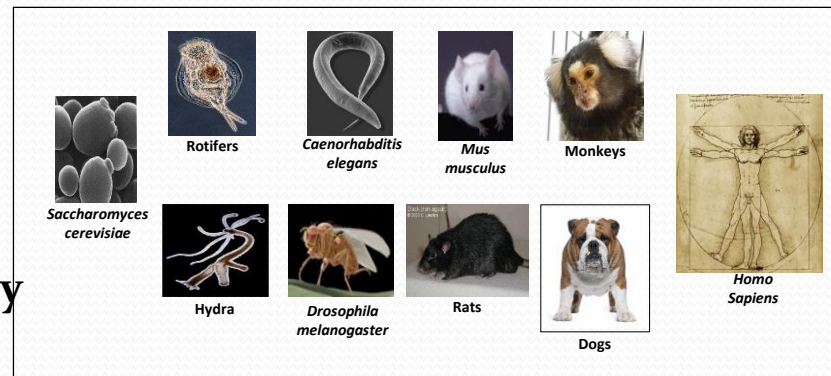
Clinical Trials Branch

- Clinical trials
n >100
- Multicenter studies
- Clinical Trials Advisory Board for Large Clinical Trials
- Large Contracted (U) Studies

**Sergei Romashkan,
Barbara Radziszewska**

Division of Aging Biology

- Nathan Shock Centers of Excellence
- Genetics and Cell Biology
 - Genetics
 - Cell Biology
 - Metabolic Regulation
- Aging Physiology
 - Stem cells & Regenerative Biology
 - Immunology
 - Endocrinology
 - Musculoskeletal and Renal Biology
 - Tissue Physiology



williamsj6@mail.nih.gov

- Biological Resources
 - Animal Models
 - Biological Resources

Director: Felipe Sierra, Ph.D.

sierraf@nia.nih.gov

Deputy Director: Ron Kohanski, Ph.D.

kohanskir@nia.nih.gov

Division of Behavioral and Social Research

BSR

Individual Behavioral Processes

- **Behavior Change & Intervention**
Lisa Onken
- **Behavioral Genetics & Aging**
Jon King
- **Cognitive Aging**
Jon King, Dana Plude
- **Family & Interpersonal Processes**
Melissa Gerald
- **Psychological Development & Integrative Science**
Lis Nielsen

Population & Social Processes

- **Demography, Sociology & Social Epidemiology**
Georgeanne Patmios, Amelia Karraker, Elena Fazio
- **Population Genetics & Epidemiology of Aging**
Amelia Karraker, Jon King
- **Health Systems**
Partha Bhattacharyya, Elena Fazio
- **Economics of Aging**
Partha Bhattacharyya, Georgeanne Patmios

- **Small Business Activities**
- **Training & Career Development**
- **Conferences**

**Office of
Research Resources**
*Partha
Bhattacharyya*

Division of Neuroscience



Eliezer Masliah, MD
Director

Bradley Wise, Ph.D.
Acting Deputy Director

Donna Weaver
Program Office
Manager

Jean Tiong-Koehler, Ph.D.
Special Assistant to the
Director

Laurie Ryan, Ph.D.
Chief, Dementias of
Aging

Dallas Anderson,
Ph.D.
Epidemiology of AD

Marilyn Miller, Ph.D.
AD Genetics

Laurie Ryan, Ph.D.
AD Clinical Trials -
Pharm

Kristina McLinden,
Ph.D.
AD Clinical Trials –
Non-pharm

Yuan Luo, Ph.D.
Technology

John Hsiao, M.D.
AD Neuroimaging,
Diagnosis

Suzana Petanceska,
Ph.D.
AD Target Validation
Translation

Nina Silverberg, Ph.D.
AD Research Centers

Lorenzo Refolo, Ph.D.
AD Drug Discovery and
Development

Cerise Elliott, Ph.D.
Population Health
Disparities

Bradley Wise, Ph.D.
Chief, Neurobiology of
Aging
Fundamental
Neuroscience of Aging

Mirosław Mackiewicz,
Ph.D.
Integrative
Neurobiology
Sleep Disorders

Austin Yang, Ph.D.
Etiology of AD

Lisa Opanashuk, Ph.D.
Pathobiology of AD

Molly Wagster, Ph.D.
Chief, Behavioral & Systems
Neuroscience
Cognitive Neuroscience of Aging

Coryse St. Hillaire-Clarke,
Ph.D.
Sensory and Motor
Disorders of Aging

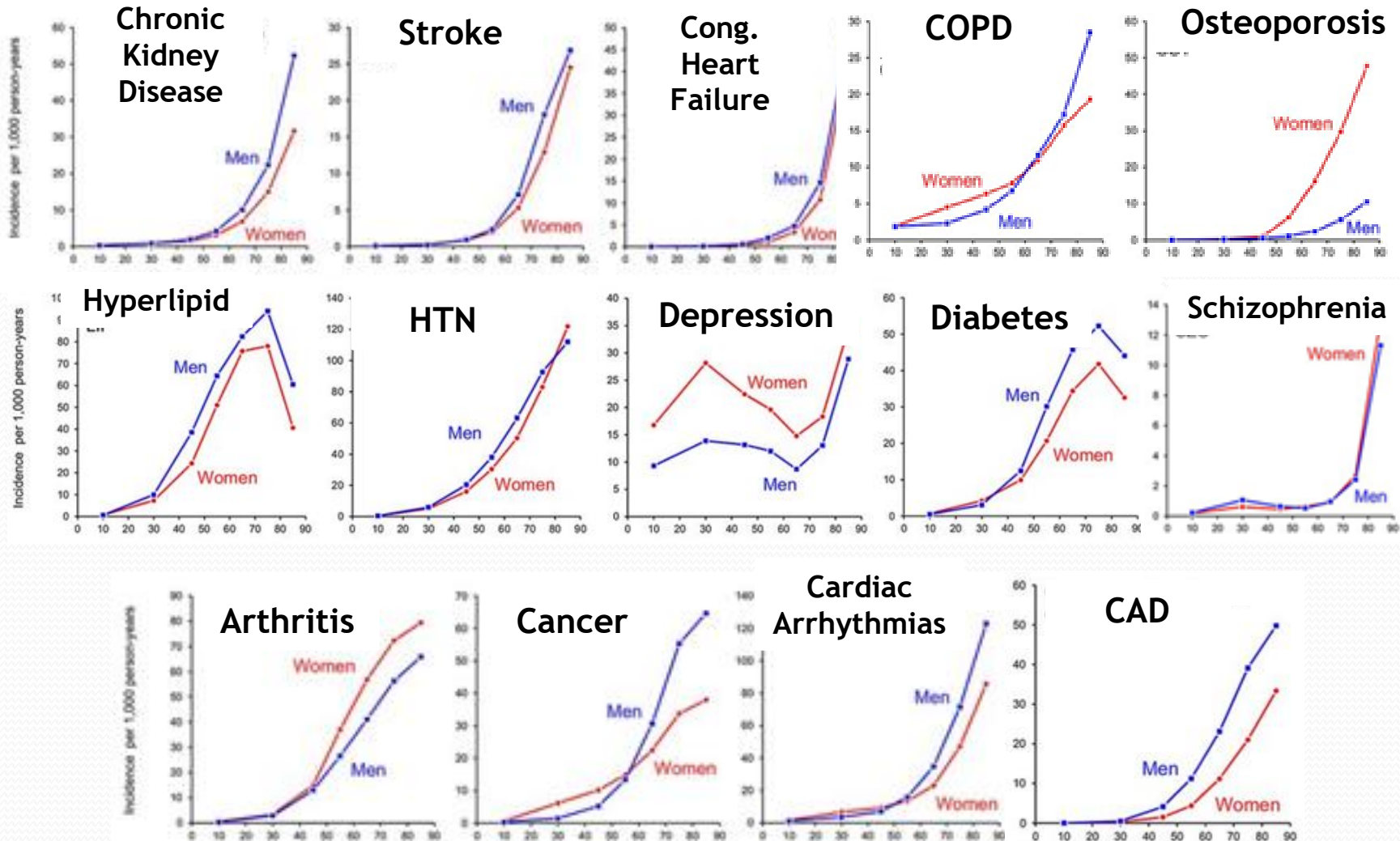
Luci Roberts, Ph.D.
Delirium
Sex Hormones/Cognition
Cognition and Non-CNS
Co-morbidities
Affective Neuroscience

Specific Areas of High Priority Research

- *Listed by Division on NIA website*
- *Can be prioritized on final funding list*
- *Philosophical shift from disease to problem-based*

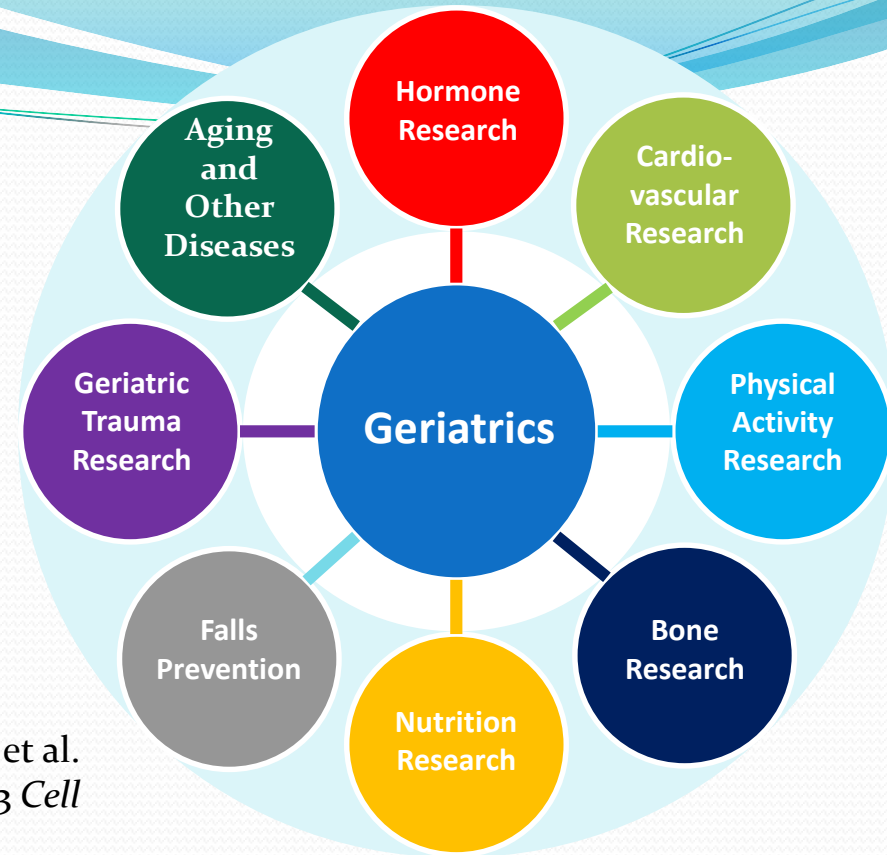
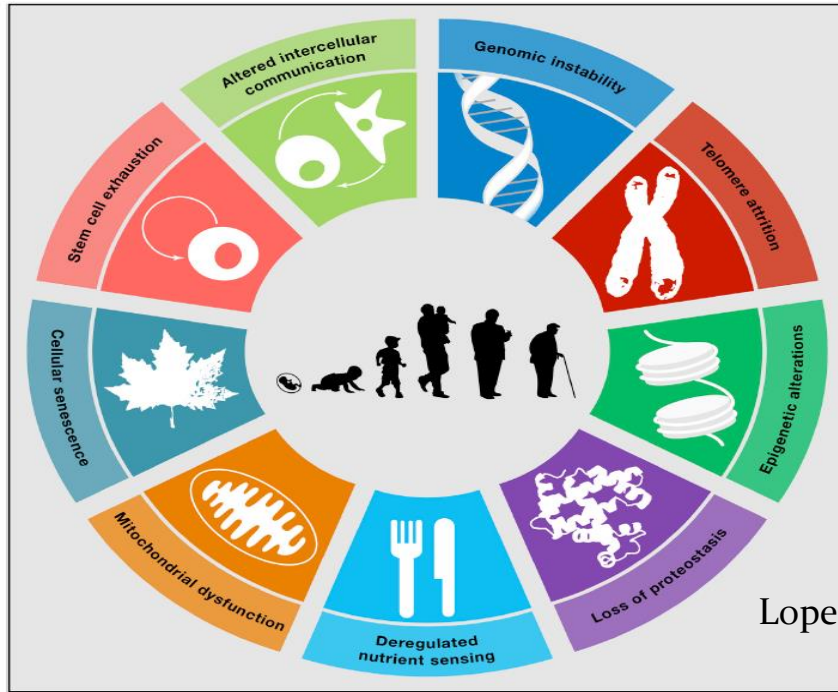
- Alzheimer's Disease
- Functional Assessment
- Geriatric Trauma
- Emergency Medicine
- Multiple Chronic Conditions
- Falls
- Sarcopenia
- Frailty
- Polypharmacy
- Functional Measurements
- Resilience
- Prevention
- Technology/Remote care
- Transition of Care
- Caregiver Issues
- Pain/Palliative Care
- HIV/AIDS and Aging
- Decision Making
- Patient-Centered Care
- Self-management
- Wound Care
- Mechanisms of Aging
- Delirium
- Predictive Markers of Aging

Disease Prevalence and Age



St. Sauver, JL et al. (2015) *BMJ Open* Feb 3;5(2):e006413.

“Hallmarks of Aging”



Examples Of Projects That Do Not Typically Fit With NIA

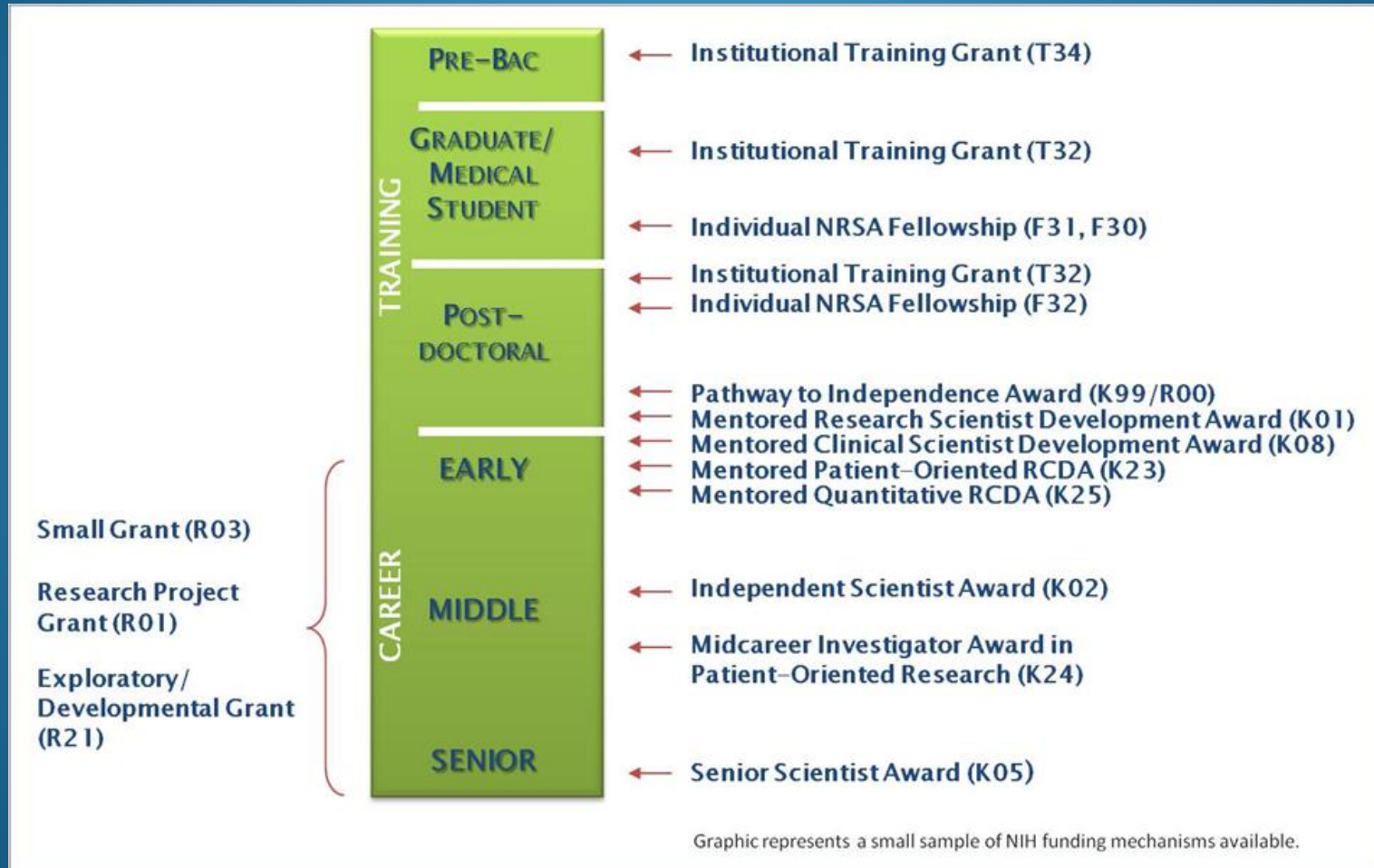
- ▶ Studies of diseases that are common in older age simply because they are common in older age
 - ▶ *Exception: Alzheimer's Disease and related dementias*
- ▶ Studies of diseases common in older adults involving only disease-specific outcomes or non-aging-relevant outcomes
- ▶ Studies where aging-related considerations are peripheral to the study focus

The best way to know if a study is appropriate for NIA is to contact a program officer

Tips and Advice on NIH Grants and How the NIA Can Help Fund your Research

- A little about the NIH and the *National Institute on Aging*
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 - Which is the right grant for you
 - Who does what at NIA
- General Tips on Career Development Awards
- After the CDA....
- Grantwriting
- Resources

NIH award programs by career stage



<https://nexus.od.nih.gov/all/2011/10/07/trends-in-nih-training-and-career-development-awards/>

General Tips on Approaching a CDA

- START EARLY 6 months
- Time, career, resources, training
- Soul-searching
 - 5 and 10 year vision
 - Lifestyle, science
 - Revisit frequently
- Grant as a cohesive unit
 - Integrate research/training so they clearly convey your short/long term goals
 - Charts/graphics helpful
- Resources
 - Successful CDA (institution, mentors, specialty society, NIA PO, NIH Website)
- Mentors

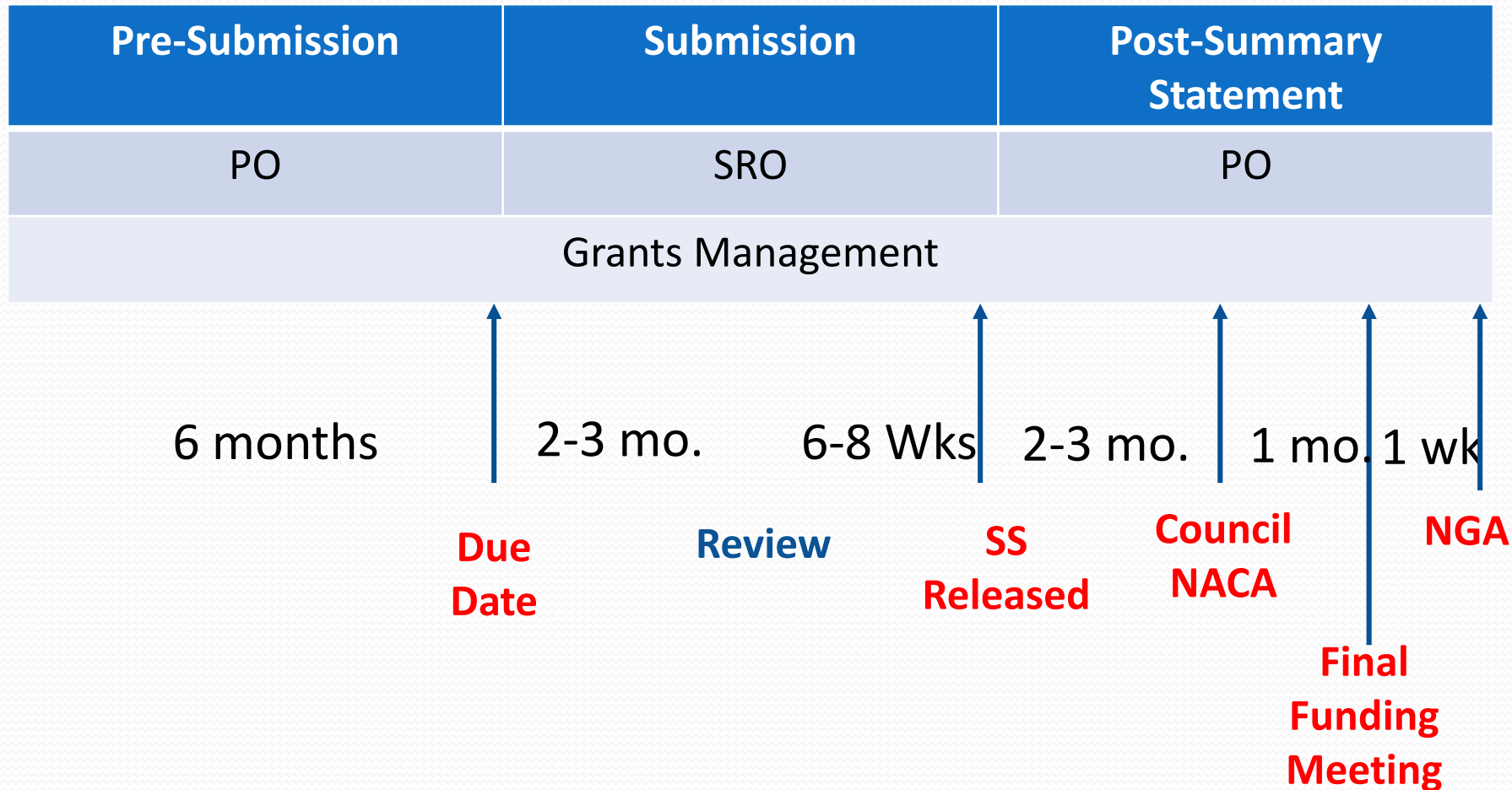
Mentoring 101

- Seek a panel of mentors who complement your needs
 - Research, clinical, life-balance, peer-to-peer, expertise, grant-writing
- Respect mentor's time, come prepared, follow-up
- Review and speak with prior mentees
- Seek input and feedback frequently, and EARLY
- Remote mentors – devise a concrete plan to meet/talk, both reiterate plan and expectation in grant
 - Skype, meet at meetings, visiting lab, visiting professorship
- Strong mentors will help connect you to resources, people
- Tables are a helpful display (who, when, what, how)

Who does what at NIH?

WHO	WHAT	WHEN
Program Officers	Create, advise, promote, administer grants. THEY DO NOT PLAY A ROLE IN REVIEW except to listen when we can!! Each PO has a portfolio based on expertise (web). We divide and conquer- SAME ADVICE. Review summary statements with applicant. Participate in U13 conferences. Review progress reports.	<u>BEFORE</u> grant submitted, <u>AFTER</u> summary statement released. Ideas, review aims, ask about mechanisms. When you run into trouble or have Qs. Promote research.
Scientific Review Officer	Set up and run peer review. Release summary statements.	Call after submitted until SS released.
Grant Management Officer	Administer grant funds, request documentation, Just in Time Documents	Questions about budget, grant documents, JIT info.

Grant Timeline

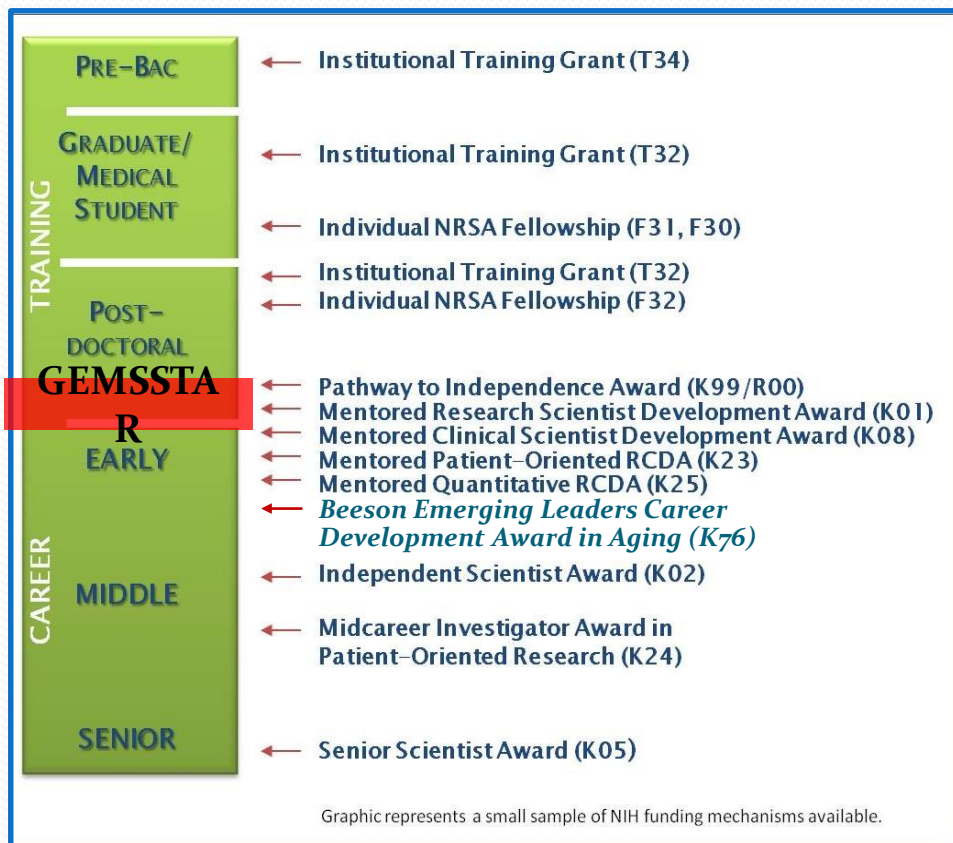


Grants not recommended for funding stay in queue 2 more cycles

Getting the most from your PO

- Email query rather than call (we telework and attend meetings)
- Send draft of specific aims and questions
- We will help to connect you with the most appropriate PO(s)
- The more you prepare, the better the information you'll get!
- Mentors, collaborators welcome on calls.
- We talk amongst each other and have the same information. Please avoid searching for additional info from multiple POs.
- We have NO influence on the peer review or score

Grants for Early Medical/Surgical Specialists' Transition to Aging Research (GEMSSTAR)



- An NIA “pre-K” award program for junior faculty physicians or dentists interested in a research career bridging their specialty and aging
- R03 mechanism (\$75k/year for 2 years) plus an independently-supported Professional Development Plan
- Biennial GEMSSTAR scholar conferences
- Yearly announcement with receipt date typically in Fall
- Current RFA:

<https://grants.nih.gov/grants/guide/rfa-files/RFA-AG-19-021.html>

<https://www.nia.nih.gov/research/dgcg/grants-early-medical-surgical-specialists-transition-aging-research-gemsstar>

Kiosks

https://researchtraining.nih.gov/

About DBRW	Career Path	Programs	Institute/Program Matrix	Resources
Undergraduate	Graduate/Doctorate	Postdoctoral/Residency	Early Career	Established Investigator

Career Path

RTCD Home > Career Path

NIH programs help to prepare the skilled, creative and diverse biomedical research workforce of tomorrow



Undergraduate and Postbaccalaureate Education

Predocotoral Training/ Clinical Doctorate

Postdoctoral Training/ Clinical Residency

Early Research Career Development

Investigator Development and



Undergraduate Education

Engaging in research projects outside the classroom during undergraduate years is important.



Early Career

The main goal for these early career researchers is to establish themselves and their teams as experts in their fields of research.

Which IC is Right for My K (and beyond)?



National Institute
on Aging

NIA

- Smaller, more personal
- Smaller budget (1/3 of NHLBI)-split
 - 80% to Alzheimers
- Focus on early career investigators
 - Early Career Investigators- w/i 10 yrs terminal degree
 - New Investigators - 1st R01
- GEMSSTAR and Beeson
- Tough K payline

NHLBI

- Large and sometimes challenging to talk to PO
- Limited aging expertise on study sections
- More generous payline for K awards but review may not acknowledge your aging savvy

***Talk to Project Officers at BOTH Institutions BEFORE applying!!
WE BOTH WANT YOU TO SUCCEED!!!!***

Paul B. Beeson Emerging Leaders Career Development Award in Aging (K76)



- An NIA individual mentored K-award program for emerging leaders in aging research
- Applicants should have already received competitive research support from somewhere
- Annual direct costs up to \$225,000
- Annual Beeson Scholar conferences
- Yearly announcement with receipt date typically in Fall
- Most recent RFAs:
 - <https://grants.nih.gov/grants/guide/rfa-files/RFA-AG-19-017.html>
 - <https://grants.nih.gov/grants/guide/rfa-files/RFA-AG-19-018.html>

Grant Writing Pearls

DO's

- Start MONTHS in advance
- Write a clear, simple and compelling story
- Emphasize innovation and impact (redundant)
- Seek outside/peer review LONG BEFORE submission
- Align mentor plan early
- Focus on Approach (best correlation with impact score)
- Your homework on publications/current state of science
- Have Biosketches/Letter specify specific role/resources of co-investigators
- Leverage resources (Institutional, etc) as much as possible
- Follow grant once submitted

DON'Ts

- Be overambitious
- Blow off Human Subject Protections (refer to IRB approval)
- Use small font, margins or fit extra stuff in the appendix, etc.
 - DO Follow SF424 details
- Be sloppy (typos)
- Be shy in asking to see successful K awards
- Fit the science into a specific grant. Find the appropriate grant.
- BE AFRAID TO CALL PO!!!!

Tips and Advice on NIH Grants and How the NIA Can Help Fund your Research

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Catalyzing cross-disciplinary research across the NIA Programs

- Alzheimer's Disease Research Centers
- Centers on the Demography and Economics of Aging
- Claude D. Pepper Older Americans Independence Centers (OAICs)
- Nathan Shock Centers of Excellence in the Basic Biology of Aging
- Resource Centers for Minority Aging Research (RCMAR)
- Roybal Centers for Translational Research on Aging

09.24.18 Webinar Recording

Building Cross-Disciplinary Collaborations in Aging Research

[Watch the webinar here.](#)



RESEARCH CENTERS COLLABORATIVE NETWORK

Webinar Recording
Building Cross-Disciplinary Collaborations in Aging Research



featuring a presentation by
Steven R. Cummings, MD
University of California, San Francisco



moderated by
Jay Magaziner, PhD, MSHyg
University of Maryland School of Medicine

NIA Centers Programs

- **Alzheimer's Disease Centers**

“...translate research advances into improved diagnosis and care for people with Alzheimer's disease while focusing on the program's long-term goal—finding a way to cure and possibly prevent Alzheimer's.”

<https://www.nia.nih.gov/alzheimers/alzheimers-disease-research-centers>

- **Claude D. Pepper Older Americans Independence Centers**

“...centers of excellence in geriatrics research and research career development to increase scientific knowledge leading to better ways to maintain or restore independence in older persons.”

<https://peppercenter.org/>

- **Nathan Shock Centers of Excellence in the Basic Biology of Aging**

“...provide leadership in the pursuit of basic research into the biology of aging.”

<https://www.nia.nih.gov/research/dab/nathan-shock-centers-excellence>

NIA Centers Programs, *continued*

- **Resource Centers for Minority Aging Research (RCMARs)**

“...decrease health disparities by increasing the number of researchers..., enhancing the diversity in the professional workforce..., improving recruitment and retention..., creating culturally sensitive health measures..., and increasing the effectiveness of interventions...”

<https://www.nia.nih.gov/research/dbsr/resource-centers-minority-aging-research-rcmar>
- **Edward R. Roybal Centers for Translation Research in the Behavioral and Social Sciences of Aging**

“...develop and pilot innovative ideas for translation of basic behavioral and social research findings into programs and practices that will improve the lives of older people and the capacity of institutions to adapt to societal aging.”

<https://www.nia.nih.gov/research/dbsr/edward-r-roybal-centers-translation-research-behavioral-and-social-sciences-aging>
- **Centers on the Demography and Economics of Aging**

“...conducting research and training in the demography, economics, and epidemiology of aging.”

<https://www.nia.nih.gov/research/dbsr/centers-demography-and-economics-aging>

Aging Research Resources

- Longitudinal Cohorts (BLSA)/Clinical Trials/Large Databases (CHS)
- Big Data (NIH Collaboratory, HCSRN/OAIC, PCORnet)
- Centers (OAIC, ADRC, ROYBAL, RCMARs, Nathan Shock, Demography & Economics of Aging)
- NIA Online Resources (standardized toolkits, animals, etc)

<http://www.nia.nih.gov/research/scientific-resources>

The screenshot shows a web browser window displaying the NIH National Institute on Aging website. The address bar shows the URL <http://www.nia.nih.gov/research/scientific-resources>. The page features a dark blue header with the NIH logo and the text "National Institute on Aging" and "Turning Discovery Into Health". Below the header is a navigation menu with links for "Home", "Health and Aging", "Research and Funding", "Newsroom", "About NIA", and "Contact Us". The main content area is titled "RESEARCH & FUNDING" and includes a section for "Scientific Resources" with sub-sections for "Biological Resources" and "Data/Informatics Resources".

U.S. Department of Health and Human Services

Alzheimer's Go4Life Español NIHSeniorHealth Publications Text Resize

NIH National Institute on Aging
Turning Discovery Into Health

Home Health and Aging Research and Funding Newsroom About NIA Contact Us

Home

RESEARCH & FUNDING

Scientific Resources

Biological Resources

- Rodent Resources
- Nonhuman Primates
- Comparative Biology of Aging Resource Sharing Network
- Interventions Testing Program (ITP)
- Human Biospecimen Collections
- *Caenorhabditis elegans* Genetic Stock
- Cell Repository

Data/Informatics Resources

- Clinical Research Study Investigators Toolbox
- Detecting Cognitive Impairment Database
- NIH Toolbox
- Patient-Reported Outcomes Measurement Information System (PROMIS)
- NIA Population Studies Database
- Division of Behavioral and Social Research Databases and Links

Research & Funding

Division of Extramural Activities

Division of Aging Biology

Division of Behavioral and Social Research

Division of Geriatrics and Clinical Gerontology

Division of Neuroscience

FAQs

Funding Opportunities

Person Centered Assessment Resource (PCAR)

Trans-NIH Cooperative Agreement led by NCI with 12 NIH ICs

Four Measurement Systems, One Resource

Goals: Integration, Dissemination, Sustainability



PROMIS®

Patient Reported Outcomes
Measurement Information System®



NIH Toolbox

NIH Toolbox for Assessment of
Neurological & Behavioral Function



Neuro-QOL

Quality of Life Outcomes in
Neurological Disorders

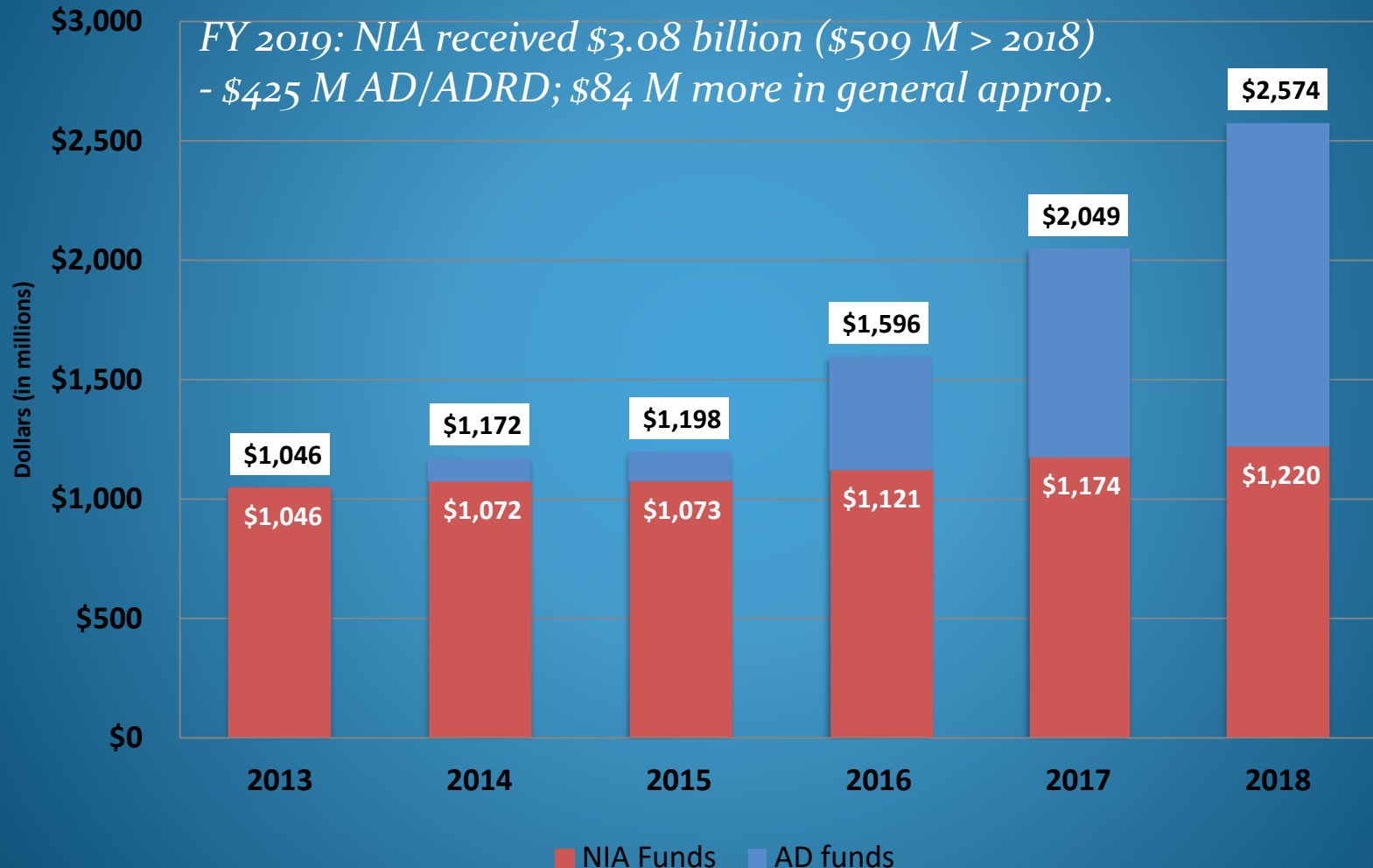


ASCQ-Me

Adult Sickle Cell Quality of Life
Measurement Information

NIA Appropriations

Fiscal Years 2013 – 2018





New AD Funding Opportunities

U.S. Department of Health and Human Services

Alzheimer's | Cell | Eye | Ear, Nose & Throat | Health | Publications



Search

- Home
- Health and Aging
- Research and Funding
- Newsroom
- About NIA
- Contact Us

Home

RESEARCH & FUNDING



Inside NIA: A Blog for Researchers



Preparing for a possible future: Advancing research into Alzheimer's disease

Posted on October 12, 2016 by Richard Hodes, Director, National Institute on Aging. [See Richard Hodes' full profile.](#)

Our National Advisory Council on Aging meeting last month proved to be very exciting. We have received increased public interest, together with additional funding in recent years, to accelerate progress against Alzheimer's disease. These funds have allowed us to stretch our minds and extend our focus while all the time keeping our eyes on the goal of reducing the burden of Alzheimer's disease

Inside NIA

A Blog for Researchers

Subscribe

Get new posts by email.

Email

- Research on Current Topics in Alzheimer's Disease and Its Related Dementias (R21 Clinical Trial Not Allowed) [PAR-19-071](#)
- Research on Current Topics in Alzheimer's Disease and Its Related Dementias (R01 Clinical Trial Optional) [PAR-19-070](#)
- Improving Quality of Care and Quality of Life for Persons with Alzheimers Disease and Related Dementias at the End of Life (R01 Clinical Trial Optional) [PAS-18-030](#)
- Administrative Supplements in AD/ADRD (coming)
- SBIR/STTR Small Business Grants

Alzheimer's and Related



Dementia Research!!

▶ >80 active FOAs <https://www.nia.nih.gov/ad-foas> with set-aside funds

- Care of ADRD patients- prevention, diagnosis, management, assessment tools
- Palliative/End of Life/Advanced Directives
- Innovative Care strategies (Geri ED?)
- Transitions of Care
- Caregiver stress/communication
- ▶ Technology to improve ADRD/Caregiver burden
- ▶ ADRD patients with Multiple chronic conditions
- ▶ Delirium/ADRD relationship
- ▶ We welcome your suggestions!

CSR-reviewed Research Applications

	General pay line, <500k	General pay line, => \$500k	ADRD pay line, < 500k	ADRD pay line, => 500k
All (except below)	15%	12%	28%	25%
New investigator R01s	18%	15%	31%	28%
Early Stage Investigator R01s	20%	17%	33%	30%

Training-related Applications

	General pay line	ADRD pay line
Training grants (T32, T35)	22	27
Career awards	21	28
Fellowships	26	40



NIA Resources: BLOG

www.nia.nih.gov/research/blog



Get weekly updates on NIA funding policies and research priorities.

Subscribe

Good news! Increased pay lines ahead!

September 12, 2018

I have good news for you! We're giving 6 percent back to all the competing awards that we cut by an average of 18 percent in 2018. We will also be working from an average cut of 12 percent for awards we make in FY 2019. We've also expanded our general pay line to the 23rd percentile.



Resources and Education:

Butler-Williams Scholars Program

- Five-day workshop for investigators new to aging research
- Highly competitive; anticipate accepting up to 50 scholars
- Next meeting: July 29 – August 2nd, 2019
- In addition to learning about aging research, participants also attended sessions on:
 - health disparities
 - research methodologies
 - funding opportunities
 - mock study sections



Apps due
March for
Summer
'19

➤ <https://www.nia.nih.gov/research/osp/butler-williams-scholars-program>

Resources:

- **Longitudinal Cohorts** (BLSA)/Clinical Trials/Large Databases (CHS)
- **Big Data** (NIH Collaboratory, HCN/OAIC, PCORnet)
- **Centers** (OAIC, ADRC, ROYBAL, RCMARs, Nathan Shock, Demography & Economics of Aging, Alzheimers Disease Research Centers)- Now Linked **RCCN!**
- **NIA Online Resources** (standardized toolkits, animals, etc)

Parting Thoughts.....

- Please take advantage of NIA Program Officers to help us understand research needs, move aging research forward, and help your science get funded. CONTACT EARLY!!
- Early Career- Consider your career stage, TIME, resources, mentorship, pilot data (NIH Online Resources – info and webinars), GEMSSTAR and Beeson, Talk to PO EARLY!!
- Review NIA High Priority Research Initiatives, FOA/RFAs, Strategic Directions- Dementia
- Seek out niches, interdisciplinary collaborations and leverage points to exploit. Focus on patient goal centered care, function, independence, hrQOL.
- Create infrastructure, conferences to synergize research efforts
- Despite the climate, careers in aging research are fulfilling and feasible!

Other NIA Perks and Pluses

- **Loan Repayment Program** – up to \$50k/yr
- **Early Stage and New Investigator Status** benefits
- **Council Approved Concepts** for Funding Published after each Council Meeting (Coming soon from January Council)
<https://www.nia.nih.gov/research/initiatives/approved-concepts>
- **Resources** – Databases, animal resources, Toolkits (PROMIS, NIH Toolbox) – vetted, validated measures, Big Data, Pragmatic Trial infrastructure, Webinars
- **Centers** – Older American Independence Centers (OAIC-Pepper), GRECC, RCMARS, Shock, Alzheimer's Dz Research
- **Pilot Studies**- Pepper Centers, NIDUS – Delirium Network, infrastructure grants (Geriatric Emergency Med.)



Thank you!



Investigator Initiated Awards

- R03 – NIH Small Research Grant Program (2 yrs)
- R21 – NIH Exploratory Developmental Research Grant Program (2 yrs)
- R01 – Research Grant Program (up to 5 yrs)

NIH LINGO

Common Abbreviations

Abbreviations

- IC- Institute or Center
- FOA
- NOT
- Parent Announcement
- GPS
- PO/HSA

- SRO

- GMO

Definition/Examples

- NIA, NHLBI, FDA, CDC
- Funding announcement opportunity (all)
- Notice (updated info)
- Generic form of grant mechanism (K08, R01)
- Guide Publishing System
- Program Officer- helps to create, advise and oversee funding (Health Sciences Officer)
- Scientific Review Officer- sets up review committee, summary statements
- Grants Management Officer-oversees budgets, grants documents

Grant Speak

	RFAs Request for App	PARs PA Spec Review	PAs Program Announ
Funds	Set-aside	Common pools May be set-aside (mech specific)	Common pools (mech specific)
Focus	Narrow – defined	Broad target/narrow review	Broad- Target
Applications	Usually single due date	variable	Standard due dates/yrs
Review	NIA Led or SEP	SEP (mainly NIA)	CSR assigned
Competition	Similar pool Usually priority score	variable	percentiled

MORE

Common Abbreviations

Peer Review

CSR-Center for Scientific Review

- Receipt and Referral assesses application and triages to Integrated Review Group (cluster of Study Sections around topic) or
- Standing Study Sections (around investigator initiated research (R's))
- Great resources for applicants
- Applicant can suggest study section and expertise needed for review science (and conflicts)
- SBIR/STTR
- Use percentiled scores

NIA

- Reviews Institute supported RFA, some PARs
- Review Committees for each NIA Division: NIA-B, NIA-C, NIA-S, NIA-N
- Special Emphasis Panel or Review
 - Beeson
 - GEMSSTAR
- K Awards
- Large clinical trials
- Fellowships and T32s
- P01s
- Have specific paylines -scores

How funding opportunities are created

- **Strategic directions** (input from community)
- **Congress - Alheimers**
- **Conferences (R13/U13)**
- **Scientific Meetings**
 - Pre-sessions (Pall Care Kidney/surgery)
 - Symposia w NIA Staff (ADS, ASH, ACC, ASN)
 - Poster sessions/talks
- **NIA-Specialty leaders meetings**
- **Other IC Collaboration**
- **Clinical Trials Advisory Panel**
- **YOU!!**
 - Publicize research-Office of Public Relations
 - NIA Blog
 - CALL US!!!

Aging Well in the 21st Century:

Strategic Directions for Research on Aging



ONLINE ONLY

<https://www.nia.nih.gov/about/strategic-directions-2016>



NIA RETREATS



**NACA
Council**



RFA vs PA(R)

Early career opportunities for specialists

**GEMSSTAR, K23,
K76, R01, OH MY!**

Medical +/-Graduate
School

Training Grant (T32)

Internship/Residency
Specialty Fellowship

Williams/Jahnigen
OAIC RL5
KL2

**First Faculty
Appointment**

Early Career Development
as (Very) Junior Faculty

GEMSSTAR

Mentored Career Development
as (Less) Junior Faculty

K Award
(PA and Beeson)
(R03, R21)

Independent
Clinician-Scientist

NIH R01**, R01,
R01, etc



Background: NIA GEMSSTAR Initiative

- 2011 NIA launches '***Grants for Early Medical and Surgical Specialists' Transition to Aging Research***' (GEMSSTAR) RFA
 - **Goal:** provides opportunity for early career clinician-scientist in medical and surgical specialties to accrue pilot data and to establish a track record in aging-focused research
 - **Mechanism:** RFA for NIA-funded small research project (R03: 2 yrs) + Professional Development Plan (PDP) designed and funded by applicant with additional private and/or public sources
 - **Eligibility:** - Physicians/dentists who completed clinical training with faculty appt. at funding start, no prior PI role on major NIH research project (R01, P01), may have prior K award if GEMSSTAR focuses on *transition* to aging research

GEMSSTAR: RFA-AF-18-015

- **R03 Mechanism** – small research project (\$75K/yr x 2 yr) PLUS an additional separately funded aging/geriatric focused career dvpt piece (approx \$12.5-\$25K/yr x 2 yrs)
- **Professional Development Plan** and commensurate support from applicant secured source (Professional Society), Division, VA, KL2, Pepper Center, Private, etc.)
- 1.6 M set-aside funds/yr x 4 years (15 awards/yr)(2015-2018)
- 1 cycle/yr: due Oct, 2018 funding 7-8/19 (RFA-AG-18-015)
- GEMSSTAR Biennial Meeting – 2015, 2016, 2018
- 111 funded, 26 specialty, GEMSSTAR mentoring GEMSSTARS, success in leadership and subsequent funding (K awards)
- PO: Susan Ziemann (niagemstar@mail.nih.gov)
- <http://www.nia.nih.gov/research/dgcg/grants-early-medical-surgical-specialists-transition-aging-research-gemsstar>

Biennial GEMSSTAR Conference

- Funded by NIA U13 to AGS (Hurria, PI)
- Scholars Meetings 2015, 2016, 2018
- Goals: Venue for Scholars (past and current) to interact with each other, mentors, NIA/NIH Staff
 - Focus on relevant aging scientific topic
 - Networking/collaborative opportunities with scholars, mentors, experts on topic
 - Attendee driven agenda
 - Highlight research – poster session
 - Career development
- Topics:
 - Specialty Research in Frailty (3/2-3/15)
 - 76 Attendees, 39 Scholars (21 specialties)
 - Aging Research Models and Systems (9/22-3/16)
 - 90 Attendees, 48 scholars (26 specialties)
 - Specialty Research in Dementia (3/26-7/2018)
- Most valued aspect of funding, Mentors needed!



GEMSSTAR Application Cycle

TIMELINE

October 6, 2016

NIA R03
Application

PDP Proposal

- Geriatrics Mentor
- Coursework
- Geriatric Clinic
- Visiting Professor
- Research seminars
- Clinical conferences

Jan-Feb, 2017

NIA SEP review

May, 2017

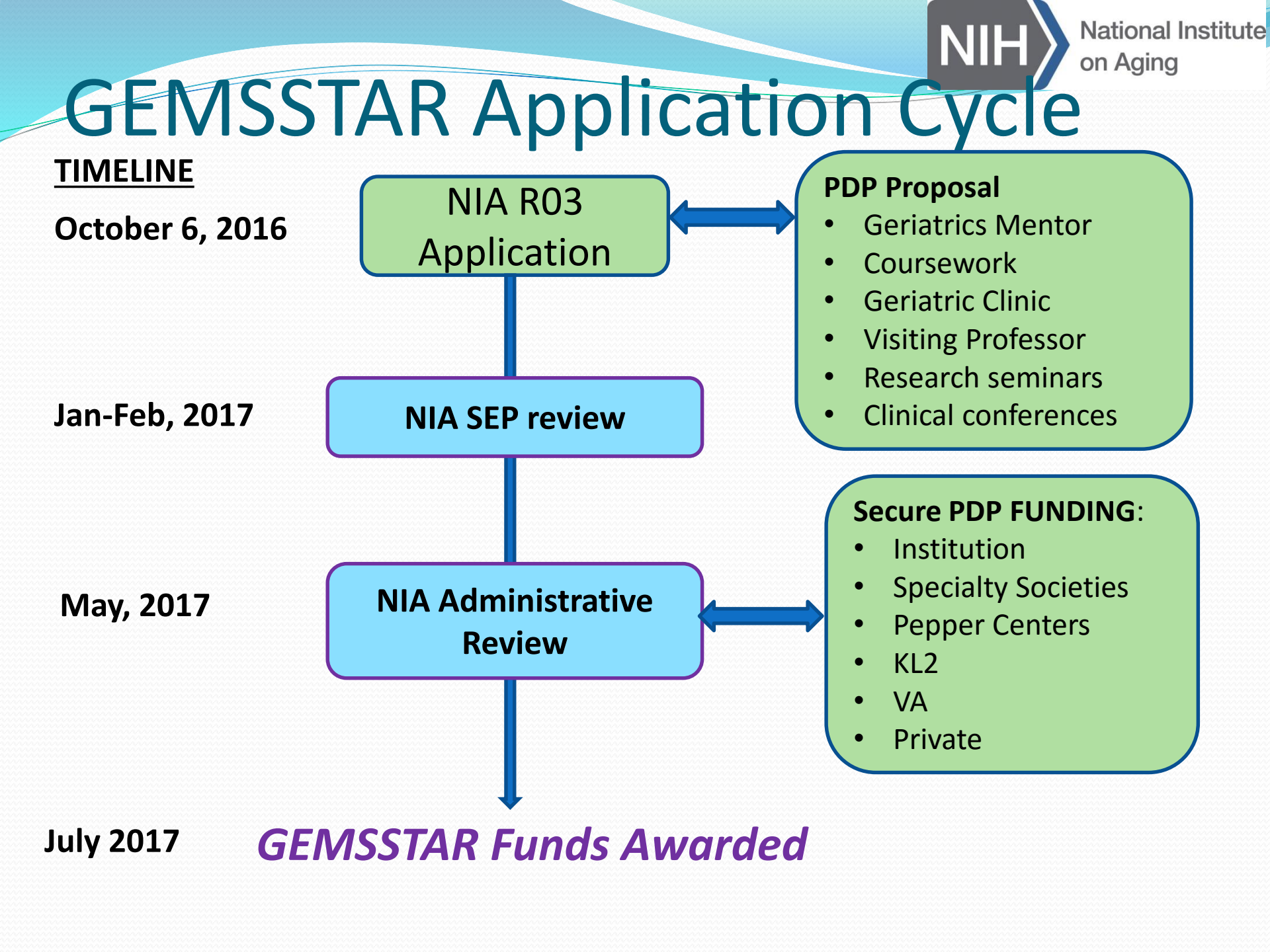
NIA Administrative
Review

Secure PDP FUNDING:

- Institution
- Specialty Societies
- Pepper Centers
- KL2
- VA
- Private

July 2017

GEMSSTAR Funds Awarded



Timing for Early Career Awards



Awards

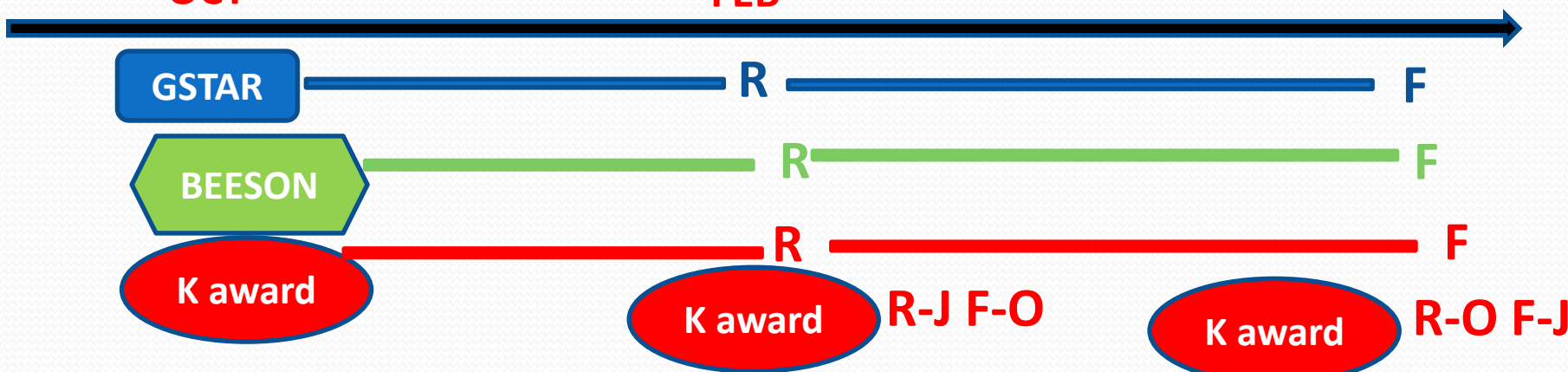
	GSTAR	K 's	Beeson
Funds (DC)	\$75K x 2 yr PDP ~ 25K/yrx 2 yr	\$100K x 5 yr	\$225 x 5 yr
Applicant	No pilot, few pubs, pre-K, new to aging	No pilot, pubs	Prior grant, leadership, pubs.
Due/Fund	Fall/next July-Aug	3 cycles/yr	Fall/next July-Aug

- Cannot have 2 sets of similar aims submitted at once- defined by time of submission to time summary statements are published
- K award time determined by need/other CDA (5 is max)
- If two grants awards, applicant should chose one

OCT

FEB

JUNE



Career Development Awards

- Mentored Career Development Awards
 - Parent K01 (Research Scientist), K08 (Clinical Scientist), K23 (Patient-Oriented) - 3 cycles/yr
 - **2018 Paul B. Beeson Emerging Leaders Career Development Award in Aging (K76)** “K deluxe” – set-aside – 7-10 awards - 1 cycle/yr- due fall, funding 7/19
 - \$225/yr for 3-5 years (direct costs)
 - Prior grant (any) and leadership experience
 - Future leaders in aging research
 - Annual Conference
 - Last RFA <https://grants.nih.gov/grants/guide/rfa-files/RFA-AG-18-006.html> (2019 Award RFA will be published spring 2018)
 - <https://www.afar.org/research/funding/beeson/>
 - <http://www.johnhartford.org/events/view/apply-for-the-paul-b.-beeson-emerging-leaders-career-development-award-in-a>
 - K99/R00 – two phase accelerator award, 2yrs/3yrs

Grant Review Experience

- Not only should you have as many people as possible review your grant, it helps tremendously to look at grants (especially K awards) that were funded if your colleagues are willing to share these with you
- The Center for Scientific Review (CSR) offers an opportunity for Early Career Scientists to gain Reviewer experience:
- <http://public.csr.nih.gov/ReviewerResources/BecomeARviewer/ECR/Pages/default.aspx>

How to Succeed as an Aging Investigator in Current Funding Climate?

- Leverage resources and collaborate.
- Always have a back up plan – it is more common to resubmit than to get funded. Don't give up!!
- Seek awards that have collaborative activities.
- Don't be shy at meetings- seek out networking and collaborating activities.
- Find alternate niches for your research by reading/attending conferences outside your field.
- OAIC and other NIA Centers are rich with human resources, experience, connections, skills and potential collaborations.
- Follow the data and your passion.
- Mentor every chance you get.
- Consider global outcomes which have big impact (falls, readmiss)
- Be creative and seek multiple sources of funding.

Home » Research and Funding

RESEARCH & FUNDING

Funding Opportunities

Funding Type: PA, RFA, PAS, PAR, NOT
Research Program: DAB, DBSR, DGCG, DN
Sort by: Release Date
Order: Desc
Apply Clear Search Filters

Funding Number	Research Program	Title	Release Date	Expiration Date
RFA-AG-13-008	DAB, DGCG	Secondary Analyses of CALERIE Data Set and Stored Biospecimens to Address Research Questions Related to Effects of Caloric Restriction in Humans and Adherence to Caloric Restriction Interventions (R01)	08/17/2012	10/31/2012
RFA-AG-13-006	DAB, DGCG	Grants for Early Medical/Surgical Specialists Transition to Aging Research (GEMSTAR) (R03)	07/18/2012	10/02/2012
RFA-AG-13-003	DGCG	Secondary Analyses of Comparative Effectiveness, Health Outcomes and Costs in Persons with Multiple Chronic Conditions (R21)	07/17/2012	10/12/2012
RFA-AG-13-002	DGCG	Claude D. Pepper Older Americans Independence Centers (OAICs) and Coordinating Center (P30)	01/27/2012	05/18/2012
RFA-MH-	DBSR, DGCG	Basic Research on Decision Making: Cognitive, Affective, and	09/02/2011	01/19/2012

Diversity of AD Research

NIH

National Institute
on Aging

Aging
metabolic
changes in AD

Comparative
biology of
neurodegeneration

Clinical care of
AD and
comorbidities

Geroscience

Biomarkers

Research on
Disease
Mechanisms

Research on
Care and
Caregiver
Support

Cognitive
outcomes in
Population
Studies

Sex differences
and AD risk

**Alzheimer's
Research**

<http://www.nia.nih.gov/AD-FOAs>

Online Partnership to Accelerate Research

- On-PAR
- enable unfunded NIH applicants with good review scores (yes, that could be you!) to submit their proposals for consideration by private funding organizations
- Run abstract through matchmaker
 - Up to the 30th percentile for major disease areas (e.g., Alzheimer's disease)
 - Up to the 50th percentile for rare disease areas
 - Promising scored, but non-percentiled applications
 - <https://onpar.leidosweb.com/faq/> and NIA Blog 11/29/17

We are here for you!!!

NIA: DGCG

- Marcel Salive -
marcel.salive@nih.gov
 - MCC, Polypharmacy, comparative effectiveness research, transitions of care/health delivery
- Sue Zieman –
susan.zieman@nih.gov
 - Cardiovascular disease, pulmonary, renal, DM/CVD, medical and surgical specialties, GEMSSTAR
- Basil Eldadah –
basil.eldadah@nih.gov
 - HIV, Pain, Fatigue, Pepper Centers, palliative care
- Lyndon Joseph -
lyndon.joseph@nih.gov
 - Exercise, falls, monitoring, diabetes, osteoporosis

DN

- Coryse St. Hillaire-Clark-
 - Coyse.sthillaire-clarke@nih.gov
 - motor, visual, auditory, somatosensory, proprioceptive, vestibular and chemosensory functions, pain
- Luci Roberts –
 - roberlu@mail.nih.gov
 - Delirium, affective neurobiology
- Molly Wagster –
 - wagsterm@nia.nih.gov
 - Delirium, cognitive (memory, learning, attention, language) and affective (emotion) cognitive chemo toxicities

WE NEED YOUR THOUGHTS AND INPUT!!