Introduction and Overview of the National Institute on Aging

ASBMB Webinar

Kenneth Santora, PhD
Director, Division of Extramural Activities (DEA)
National Institute on Aging (NIA)
March 8, 2023
The National Institutes of Health
The Nation’s Steward of Medical & Behavioral Research

- Supports research of non-Federal scientists
  - In universities, medical schools, hospitals, and research institutions throughout the United States and overseas
- Conducts research in its own laboratories
- Helps train research investigators
- Fosters communication of medical information
National Institutes of Health

Office of the Director

- National Institute on Aging
- National Institute on Alcohol Abuse and Alcoholism
- National Institute of Allergy and Infectious Diseases
- National Institute of Arthritis and Musculoskeletal and Skin Diseases
- National Cancer Institute
- National Institute of Child Health and Human Development
- National Institute on Deafness and Other Communication Disorders
- National Institute of Dental and Craniofacial Research
- National Institute of Diabetes and Digestive and Kidney Diseases
- National Institute on Drug Abuse
- National Institute of Environmental Health Sciences
- National Eye Institute
- National Institute of General Medical Sciences
- National Heart, Lung, and Blood Institute
- National Human Genome Research Institute
- National Institute of Mental Health
- National Institute of Neurological Disorders and Stroke
- National Institute of Nursing Research
- National Institute of Minority Health and Health Disparities
- National Center for Complementary and Integrative Health
- Fogarty International Center
- National Center for Advancing Translational Sciences
- National Library of Medicine
- National Institute of Biomedical Imaging and Bioengineering

NIH Clinical Center

Center for Information Technology

Center for Scientific Review
NIA Mission:

- Support and conduct genetic, biological, clinical, behavioral, social, and economic research on Aging.
- 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.

- Lead for research on Alzheimer’s disease and related forms of dementia (AD/ADRD)
- [https://www.nia.nih.gov/about/aging-strategic-directions-research](https://www.nia.nih.gov/about/aging-strategic-directions-research)
FY 2023 Budget: Funding Increases in Key Areas

$47.7 Billion for NIH

- $4.41B for NIA
- Includes a base increase in non-AD research
- All divisions will benefit: DAB, DBSR, DGCG, DN

- $60M increase for BRAIN
- $135M increase for big data/AI
- $15M increase for Down Syndrome
- $226M increase for AD/ADRD
  - $151M to NIA
  - $75M to NINDS
- $151M to NIA
- $75M to NINDS

60M increase for BRAIN
$135M increase for big data/AI
$15M increase for Down Syndrome
$226M increase for AD/ADRD
$151M to NIA
$75M to NINDS

NIH National Institute on Aging
NIA Appropriations

Fiscal Year 2014-2023

Dollars (in millions)

<table>
<thead>
<tr>
<th>Year</th>
<th>NIA Base</th>
<th>Cumulative Congressionally Targeted AD/ADRD Funds</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>$1,171</td>
<td>$0</td>
</tr>
<tr>
<td>2015</td>
<td>$1,199</td>
<td>$0</td>
</tr>
<tr>
<td>2016</td>
<td>$1,600</td>
<td>$0</td>
</tr>
<tr>
<td>2017</td>
<td>$2,049</td>
<td>$0</td>
</tr>
<tr>
<td>2018</td>
<td>$2,574</td>
<td>$0</td>
</tr>
<tr>
<td>2019</td>
<td>$3,083</td>
<td>$0</td>
</tr>
<tr>
<td>2020</td>
<td>$3,544</td>
<td>$0</td>
</tr>
<tr>
<td>2021</td>
<td>$3,899</td>
<td>$0</td>
</tr>
<tr>
<td>2022</td>
<td>$4,220</td>
<td>$0</td>
</tr>
<tr>
<td>2023</td>
<td>$4,408</td>
<td>$0</td>
</tr>
</tbody>
</table>
## Current Allocations for Competing Research Grant Awards, FY 2023

### CSR-Reviewed Research Applications (Percentile Based)

<table>
<thead>
<tr>
<th></th>
<th>General Pay Line, &lt;$500K</th>
<th>General Pay Line, =&gt;$500K</th>
<th>AD/ADRD Pay Line, &lt;$500K</th>
<th>AD/ADRD Pay Line, =&gt;$500K</th>
</tr>
</thead>
<tbody>
<tr>
<td>All applications; exceptions see website</td>
<td>15%</td>
<td>12%</td>
<td>25%</td>
<td>25%</td>
</tr>
<tr>
<td>N.I. R01s</td>
<td>18%</td>
<td>15%</td>
<td>28%</td>
<td>28%</td>
</tr>
<tr>
<td>E.S.I. R01s</td>
<td>20%</td>
<td>17%</td>
<td>30%</td>
<td>30%</td>
</tr>
</tbody>
</table>

**New Investigator (N.I.):** An applicant who has not received a prior R01 award or its equivalent.

**Early-Stage Investigator (E.S.I.):** A new investigator who is within 10 years of finishing research training.

**AD/ADRD:** Research on Alzheimer's disease and Alzheimer’s disease-related dementias.
## Current Pay Lines, FY 2023

<table>
<thead>
<tr>
<th>NIA-Reviewed Applications (Overall Impact Score based)</th>
<th>General Pay Line</th>
<th>AD/ADRD Pay Line</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program projects</td>
<td>24</td>
<td>30</td>
</tr>
<tr>
<td>Other NIA-reviewed research</td>
<td>24</td>
<td>30</td>
</tr>
<tr>
<td>Career development awards</td>
<td>21</td>
<td>35</td>
</tr>
<tr>
<td>Fellowship awards</td>
<td>30</td>
<td>40</td>
</tr>
</tbody>
</table>
Alzheimer’s Disease & Related Dementias Research
### NIA AD/ADRD Appropriations

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>National Alzheimer’s Project Act (NAPA)</td>
<td>$50 M* redirected within NIH budget</td>
<td>$40 M* redirected within NIH budget</td>
<td>$100 M additional approp.</td>
<td>$25 M additional approp.</td>
<td>$350 M additional approp.</td>
<td>$400 M additional approp.</td>
<td>$414 M additional approp.</td>
<td>$425 M additional approp.</td>
<td>$350 M additional approp.</td>
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</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
</tr>
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<tbody>
<tr>
<td>$300 M additional approp.</td>
<td>$289 M additional approp.</td>
<td>$151 M** additional approp.</td>
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</table>

*One-year money; years displayed are fiscal years.

**This figure does not include an additional $75M in AD/ADRD funds to NINDS, giving an overall increase in AD/ADRD funds of $226M in FY 2023.
## FY2022 AD/ADRD Supplements to Non-AD/ADRD Awards by Institute/Center

<table>
<thead>
<tr>
<th>Institute/Center</th>
<th>Count of Supplements</th>
<th>Total Supplements: 213</th>
<th>Total Cost: $74.6M</th>
</tr>
</thead>
<tbody>
<tr>
<td>NIA</td>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NHLBI</td>
<td>20</td>
<td></td>
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</tr>
<tr>
<td>NINDS</td>
<td>19</td>
<td></td>
<td></td>
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<tr>
<td>NIGMS</td>
<td>17</td>
<td></td>
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</tr>
<tr>
<td>NIDCD</td>
<td>15</td>
<td></td>
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<tr>
<td>NIBB</td>
<td>14</td>
<td></td>
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</tr>
<tr>
<td>NIMH</td>
<td>13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NCI</td>
<td>13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NIDDK</td>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OD</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NIDA</td>
<td>9</td>
<td></td>
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<tr>
<td>NIAAA</td>
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<td>NIAID</td>
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<td>NMHD</td>
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<tr>
<td>NCICM</td>
<td>5</td>
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<td>NIEHS</td>
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<tr>
<td>NEI</td>
<td>3</td>
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<td>NICHD</td>
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<tr>
<td>NHGRI</td>
<td>1</td>
<td></td>
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</tr>
<tr>
<td>NICDR</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NIAMS</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Across Fiscal Years 2015—2022:

• \(\frac{1}{3}\) of NIA’s Alzheimer’s disease and related dementias awardees were either new or early-stage investigators.

• \(\frac{1}{5}\) of NIA’s Alzheimer’s disease and related dementias awardees were new to the field.
Recent and Upcoming Events
NIH’s Commitment to Ending Structural Racism

- NIH is committed to instituting new ways to support diversity, equity, and inclusion, and identifying and dismantling any policies and practices that may harm our workforce and our science.

- NIH established the **UNITE** initiative to address structural racism in biomedical research with the goal of ending racial inequity.

- Primary goals of the initiative are:
  
  **U** Understanding stakeholder experiences through listening and learning
  
  **N** New research on health disparities, minority health, and health equities
  
  **I** Improving the NIH culture and structure for equity, inclusion and excellence
  
  **T** Transparency, communication, and accountability with our internal and external stakeholders
  
  **E** Extramural research ecosystem: changing policy, culture and structure to promote workforce diversity

NIA Participation:

- **Melissa Espinoza** - I Committee
- **Frank Bandiera** - N Committee
- **Patricia Jones** - E Committee, Evaluation Committee

[nih.gov/ending-structural-racism](nih.gov/ending-structural-racism)
NIA’s Healthy Aging Start-Up Challenge to Foster Diversity and Accelerate Innovation in Aging Research

• In support of ongoing efforts to foster diversity in aging research and innovation, NIA launched the inaugural Healthy Aging Start-Up Challenge in 2022.

• The Challenge winners were selected from 20 finalists and each received a $60,000 prize.

• To learn more and/or to apply for the 2023 Challenge by April 20, 2023, please visit: https://www.nia.nih.gov/research/sbir/startup-challenge
The Butler-Williams Scholars Program

For junior faculty and researchers new to the field of aging

**Dates:** August 23-25, 2023  
**Location:** To be held virtually  
**Eligibility:** Doctoral degree (e.g., PhD, DrPH, MD, etc.)

To apply for the 2023 cohort (by April 21, 2023):  

For more details:  
[https://www.nia.nih.gov/research/blog/2023/01/butler-williams-scholars-program-one-kind-opportunity-grow-your-career](https://www.nia.nih.gov/research/blog/2023/01/butler-williams-scholars-program-one-kind-opportunity-grow-your-career)
2023 NATIONAL RESEARCH SUMMIT ON
Care, Services, and Supports for Persons Living with Dementia and Their Care Partners/Caregivers

REGISTER TODAY

Monday, March 20, 2023 – Wednesday, March 22, 2023
Virtual Meeting

NIH National Institute on Aging
Register Now: 2023 Geroscience Summit

THE FOURTH SUMMIT

Geroscience for the Next Generation

APRIL 24 - 26, 2023
NIH CAMPUS, BETHESDA, MD

REGISTRATION NOW OPEN!

https://www.nia.nih.gov/2023-fourth-geroscience-summit#registration
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https://www.nia.nih.gov/research/funding

Review the latest approved concepts:
https://www.nia.nih.gov/approved-concepts

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Follow NIA on LinkedIn:
https://www.linkedin.com/company/national-institute-on-aging/
THANK YOU!

QUESTIONS???

Contact information:

Kenneth E. Santora, Ph.D.
Director
Division of Extramural Activities
NIA/NIH/DHHS
Email: ksantora@nih.gov