AGS Sleep Meeting

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Deputy Director
National Institute on Aging

October 4, 2015
NIA Appropriations FY 2005-2016 PB
Current versus Constant, FY05 Base Year

Difference from FY2005
In Current Dollars: $221.8M Increase
In Constant Dollars: $178.6M Decrease
17% decrease FY05-FY16 PB

<table>
<thead>
<tr>
<th></th>
<th>05</th>
<th>06</th>
<th>07</th>
<th>08</th>
<th>09</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16 PB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actual</td>
<td>1,045.3</td>
<td>1,036.6</td>
<td>1,045.5</td>
<td>1,051.0</td>
<td>1,079.0</td>
<td>1,108.2</td>
<td>1,100.4</td>
<td>1,121.3</td>
<td>1,040.6</td>
<td>1,171.7</td>
<td>1,197.5</td>
<td>1,267.1</td>
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<tr>
<td>Constant</td>
<td>1,045.3</td>
<td>988.9</td>
<td>957.7</td>
<td>913.3</td>
<td>906.4</td>
<td>897.6</td>
<td>859.4</td>
<td>861.2</td>
<td>779.4</td>
<td>855.3</td>
<td>847.8</td>
<td>866.7</td>
</tr>
</tbody>
</table>
NIA Appropriations

Dollars (in billions)

Fiscal Year

2012 2013 2014 2015 2016 PB

AD funds
## Funding Policy – General Payline

<table>
<thead>
<tr>
<th>Requested Direct Costs</th>
<th>&lt;500k</th>
<th>500k or greater</th>
</tr>
</thead>
<tbody>
<tr>
<td>All applications except N.I or E.S.I. R01s</td>
<td>8%</td>
<td>5%</td>
</tr>
<tr>
<td>N.I. R01s</td>
<td>12%</td>
<td>9%</td>
</tr>
<tr>
<td>E.S.I. R01s</td>
<td>14%</td>
<td>11%</td>
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# Funding Policy – AD Payline

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<td>14%</td>
</tr>
<tr>
<td>N.I. R01s</td>
<td>21%</td>
<td>18%</td>
</tr>
<tr>
<td>E.S.I. R01s</td>
<td>23%</td>
<td>20%</td>
</tr>
</tbody>
</table>
H.R. 3020 – 6/24/15, the House Appropriations Committee reported out its FY16 Labor HHS Appropriations bill.
  • $31.2 billion for the NIH, $1.1 billion above FY15
  • $300 million increase for Alzheimer’s disease research
S. 1695 – 6/25/15, the Senate Appropriations Committee reported out its FY16 Labor HHS Appropriations bill.

- $32 billion for the NIH, $2 billion above FY15
- $350 million increase for Alzheimer’s disease research
NIA Sleep Research Update
Sleep Drives Aβ Clearance From the Brain

Shortened Sleep Increases Aβ Deposition in the Brain

Spira et al., JAMA Neurol, 2013 (published on line October 21, 2013)
Developing Biomarker Arrays Predicting Sleep and Circadian-Coupled Risks to Health

An NIA Workshop*
April 27-28, 2015, Bethesda, MD

Background: Workshop was co-sponsored with NHLBI

Objective: Bring biomarker and sleep/circadian research experts together

Outcomes: Identify markers of acute sleep loss, chronic sleep loss and of circadian phase and mistimed sleep
Measures of Physiologic Resiliences and Vulnerabilities in Human Aging

An NIA Workshop*
August 26-27, 2015, Bethesda, MD

• Resiliencies are conceptualized as the varied responses permitting adaptation to stressors

• Built on the conceptual work laid by an earlier Division of Aging Biology workshop on measures of resiliency in animal models
Measures of Physiologic Resiliences and Vulnerabilities in Human Aging

An NIA Workshop*
August 26-27, 2015, Bethesda, MD

• Research questions addressed:
  • Development of new or improved measures to characterize specific resiliencies
  • Assessment of the predictive value of diverse resiliencies for clinically meaningful outcomes
  • Understanding of mechanisms that underlie specific resilient responses
  • Identification of specific resource needs, including methodological approaches, for the study of resiliencies

• A white paper is under development, expected publication in ‘16.
FY 16 NIA Program Announcements

- Health Disparities
- Caregiving
- Epidemiology
- Diagnosis and Prediction
- Molecular and Cellular Mechanisms
- Cognitive Aging
- Clinical
NIA Pipeline Program: GEMSSTAR
**Targeting a Vulnerable Time**

**First Faculty Appointment**

- Opportunity to connect with mentor with aging expertise
- Pilot data for future funding

**Medical +/- Graduate School**

**Internship/Residency Specialty Fellowship**

**Early Career Development as (Very) Junior Faculty**

**Mentored Career Development as (Less) Junior Faculty**

**Independent Clinician-Scientist**

**Private Practice**

**Clinician-Educators**

**GEMSSTAR**

- K Award R03, R21
- NIH R01
GEMSSTAR
Grants for Early Medical and Surgical Specialists’ Transition in Aging Research

• **R03 Mechanism** – small research project - $75K/yr x 2 yr

• PLUS an additional separately funded aging/geriatric focused career development piece - approx $12.5-$25K/yr x 2 yrs

• Must have faculty appointment when award begins

• For specialists (including geriatricians) without extensive independently funded research record
GEMSSTAR

• Professional Development Plan

• Other Support - Specialty Society, Division, VA, KL2, Private, etc

• Approximately 15 awards/yr - 2015-2019

• 1 cycle/yr – due fall 10/7/2015 – funding 7/16

• GEMSSTAR Biennial Meeting – 2015, 2017, 2019
GEMSSTAR
Grants for Early Medical and Surgical Specialists’ Transition in Aging Research

• PO: Susan Zieman (niagemsstar@mail.nih.gov)