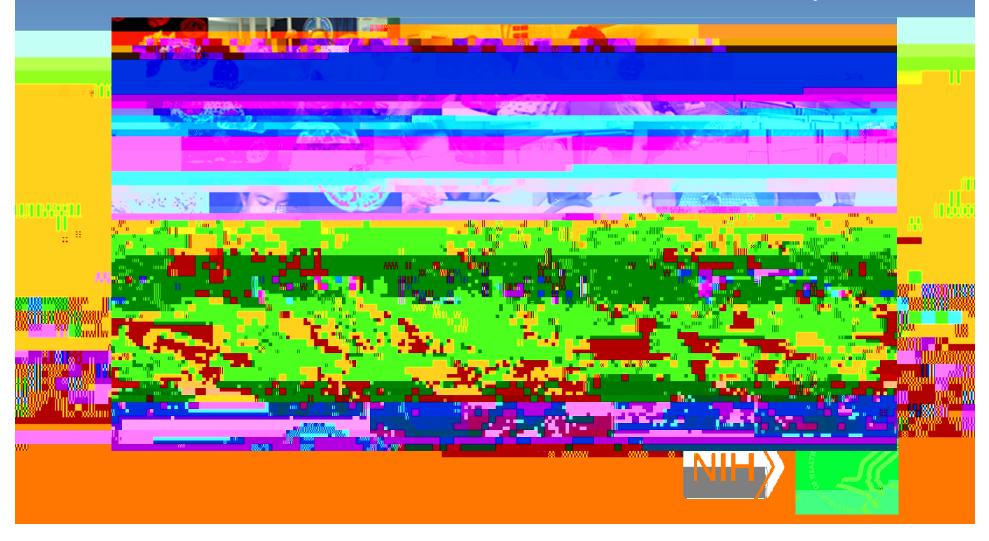
### NIH FY 2017 Budget Roll-Out Francis S. Collins, M.D., Ph.D. Director, National Institutes of Health February 9, 2016



## NIH's FY 2017 Budget Request

Year	FY 2015	FY 2016	FY 2017 Request
Program Level (\$B)	\$30.311	\$32.311	\$33.136
Competing RPGs (est.)	9,540	10,753	9,946
Total RPGs (est.)	34,379	35,840	36,440
Applicant Success Rate (est.)	18.3%	19.2%	17.5%

S The proposed increase of \$825 million in FY 2017 would continue the progress achieved in FY 2016 and allow the highest total number of Research Project Grants (competing and noncompeting) in seven years.

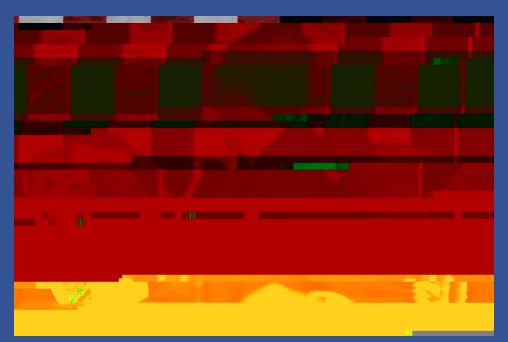
## FY 2017 Request: Targeted Increases – from Mandatory Funds\*

Š National Cancer Moonshot \$680 M
Š Precision Medicine Initiative Cohort 100 M
Š BRAIN Initiative 45 M

\*Remainder of NIH budget request is at the same overall program level as FY 2016, but \$1 billion of that is from mandatory funds (\$1.825 billion increase).



### National Cancer Moonshot

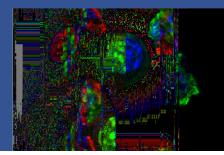


For the loved ones we've all lost, for the families that we can still save; let's make America the country that cures cancer once and for all. What do you think? Let's make it happen. And medical research is critical.

> ~ President Barack Obama State of the Union Address, January 12, 2016

## National Cancer Moonshot

- š Multi-year cancer initiative, led by the Vice President
- š Will accelerate research on new approaches for cancer prevention, screening, diagnosis, treatment
  - Cancer Vaccines
  - Early Cancer Detection
  - Single-Cell Genomic Analysis
  - Cancer Immunotherapy
  - Pediatric Cancer
  - Data Sharing
  - Exceptional Opportunities Fund



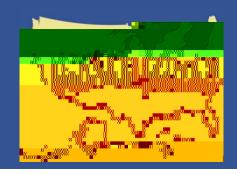
### Assembling the PMI Research Cohort

#### š One million or more volunteers

- Broadly reflect the diversity of the U.S. (including all ages, health statuses, areas)
- Strong focus on underrepresented groups
- š Longitudinal cohort with continuing interactions
  - Collect EHR data, provide biospecimen(s) and survey, complete baseline exam

#### š Two methods of recruitment

- Direct volunteers
  - Anyone can sign up
- Healthcare provider organizations (incl. FQHCs)
  - Consider diversity of HPO participants, robustness of EHR, patient follow-up

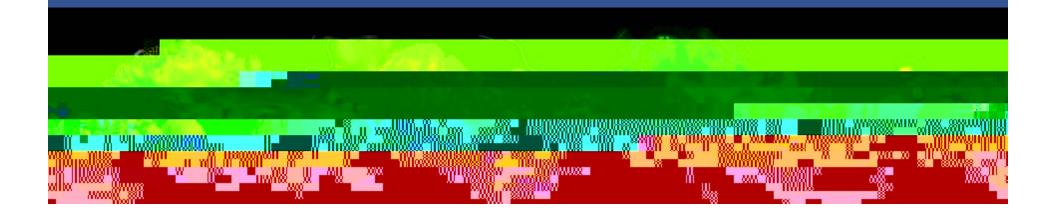


# Scientific Opportunities in U.S. PMI Cohort Program

- S Develop quantitative estimates of risk for a range of diseases by integrating environmental exposures and genetic factors
- S Identify causes of individual variation in response to commonly used therapeutics (pharmacogenomics)
- Š Discover biological markers that signal increased or decreased risk of developing common diseases
- **š** Understand and address causes of health disparities
- **š** Use mobile health (mHealth) technologies to correlate activity, physiological measures, environmental exposures with health outcomes
- **š** Develop new disease classifications and relationships
- š Empower study participants with data and information to improve their own health
- **š** Create platform to enable trials of targeted therapies

### Brain Research through Advancing Innovative Neurotechnologies (BRAIN) Initiative ®

- Š Expand efforts to address fundamental neuroscience questions
- š Increase investment to support groundbreaking neuroscience research, neuroimaging, training
- Š Explore collaborations with industry to develop/test devices for mapping/tuning brain circuitry



## Strategic Approach to HIV/AIDS Research Investment

### **š** Top Priorities

- Reducing HIV incidence, including vaccines
- Safer, easier-to-use therapies

## Strengthen and Sustain Diverse & Talented Biomedical Research Workforce

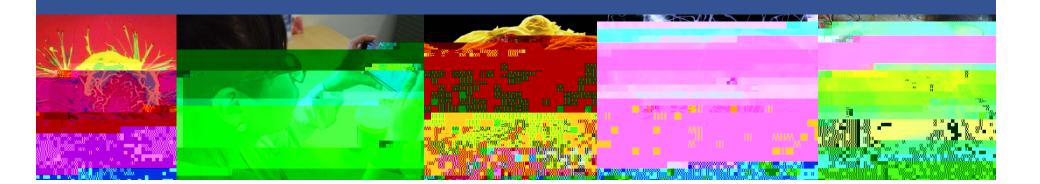
To encourage the next generation of scientists, NIH will continue to invest in:

- Š High-Risk High-Reward Program to support innovative researchers with potentially transformative goals
- Š Early Independence Awards to enable exceptional junior scientists to "skip the postdoc"
- Š An array of programs to enhance diversity in the biomedical research workforce

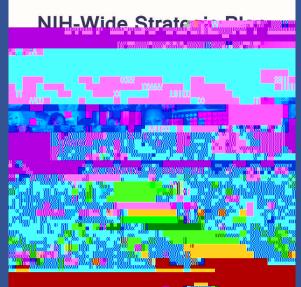


### FY 2016 Increase Highlights

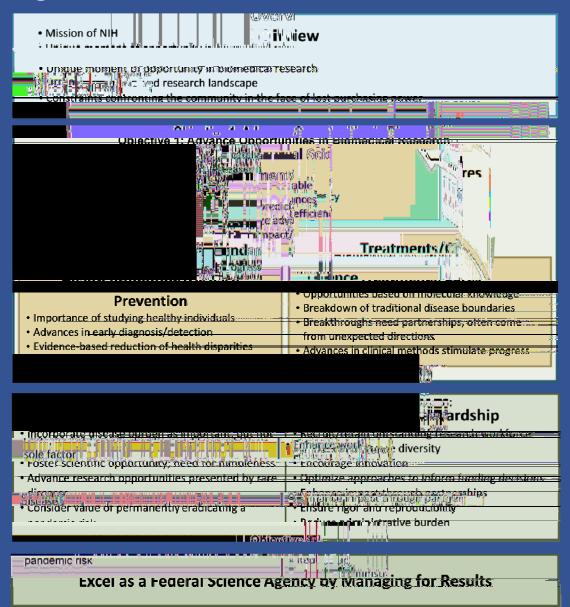
- š \$2 billion increase
- S Allows highest level of new and competing Research Project Grants since FY 2003 (10,753)
- S Precision Medicine Initiative
   S Cohort
   Cancer
   S Antimicrobial Resistance
   S BRAIN Initiative
   S Alzheimer's Disease
   S ASSIN M

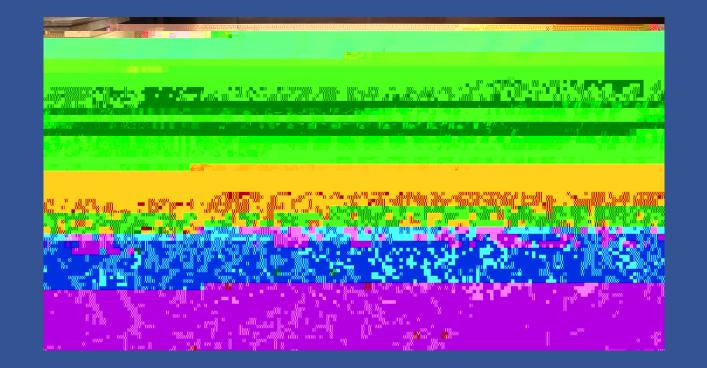


### NIH's New Strategic Plan



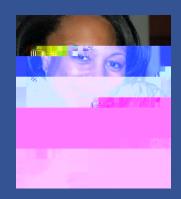






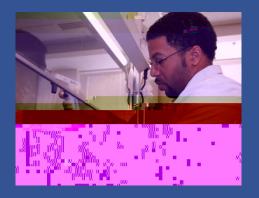
We live in a time of extraordinary change—change that's reshaping the way we live, the way we work, our planet, our place in the world. It's change that promises amazing medical breakthroughs.

> ~ President Barack Obama State of the Union Address, January 12, 2016









## NIH... Turning Discovery Into Health



