

NIH FY 2016 Budget Roll-Out

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Director, National Institutes of Health

February 2, 2015

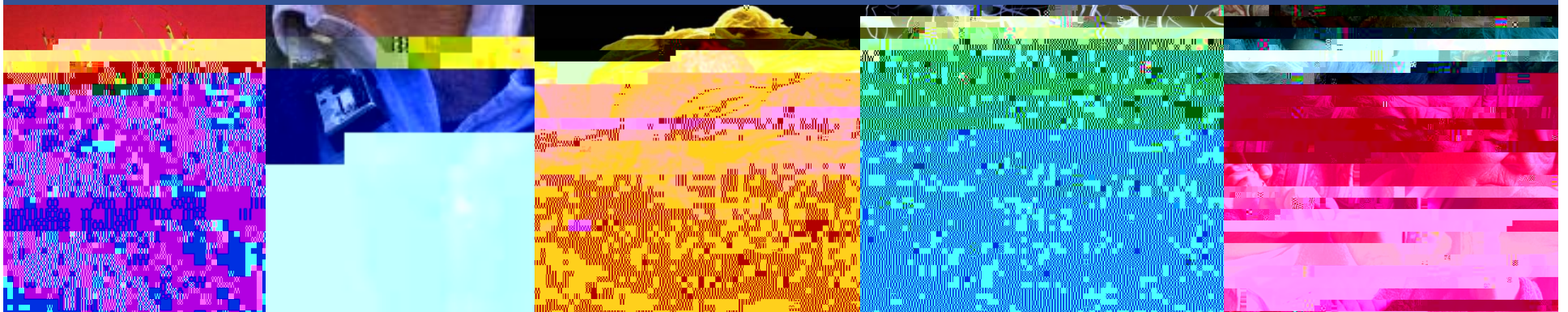


NIH's FY 2016 Budget Request

Year	FY 2014	FY 2015	FY 2016 Request
Program Level (\$B)	\$30.070	\$30.311	\$31.311
Competing RPGs (est.)	9,168	9,076	

FY 2016 Request: Highlights of Targeted Increases

<i>f</i> Precision Medicine Initiative	\$200 M
– Cancer	70 M
– Other Diseases	130 M
<i>f</i> Antimicrobial Resistance	100 M
<i>f</i> BRAIN Initiative	70 M
<i>f</i> Alzheimer's Disease	50 M





“And that’s why the budget I send this Congress on Monday will include a new Precision Medicine Initiative that brings America closer to curing diseases like cancer and diabetes, and gives all of us access, potentially, to the personalized information that we need to keep ourselves and our families healthier.”

President Barack Obama
January 30, 2015



www.nih.gov/precisionmedicine

Precision Medicine Initiative: **Near Term**

Apply tenets of precision medicine to **cancer**

f Identify new cancer subtypes, therapeutic targets

f Test precision therapies, with private sector partners

- Wide spectrum of adult and pediatric cancers
- Early stage to advanced disease

f Expand understanding of therapeutic response

- Drug resistance
- Combination therapy
- Predicting and monitoring tumor recurrence



Precision Medicine Initiative: **Longer Term**

Generate knowledge base needed to move precision medicine into **the whole range of health and disease**

f To reach this goal, the Initiative will support:

- Creative approaches for detecting, measuring, analyzing wide range of biomedical data: molecular, genomic, cellular, clinical, behavioral, physiological, and environmental
- Tests of these innovations in small, pilot studies
- Evaluation of most promising approaches in greater numbers of people over longer periods of time





Precision Medicine Initiative

The National Research Cohort will:

f Provide scientists with a ready platform for:

- Observational studies of drugs and devices
- Tests of wearable sensors for monitoring health
- More rigorous interventional studies

f Forge new model for “doing science” that emphasizes engaged participants and open, responsible data sharing with privacy protections

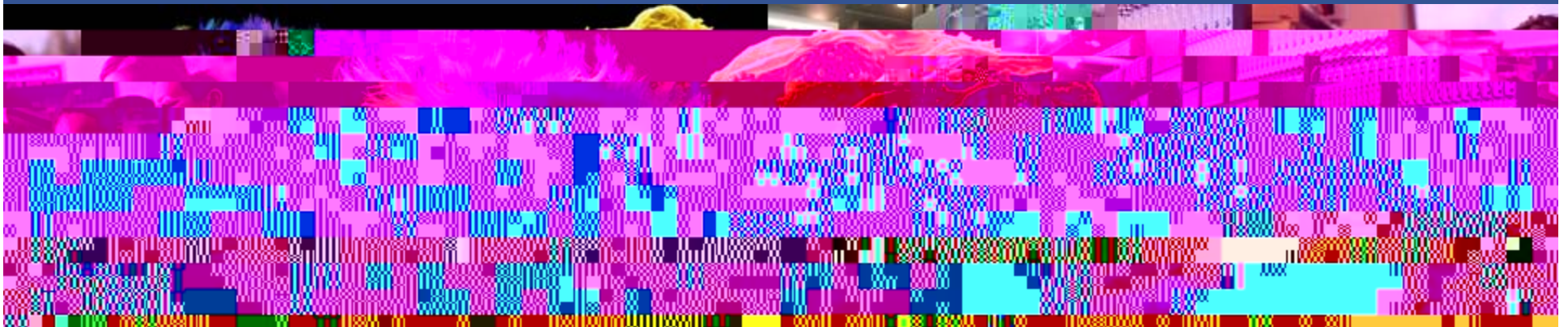


Other Extraordinary Opportunities for FY 2016

f Unraveling Life's Mysteries through Basic Research

f Translating Discovery into Health

f Preparing a Diverse and Talented Biomedical Research Workforce



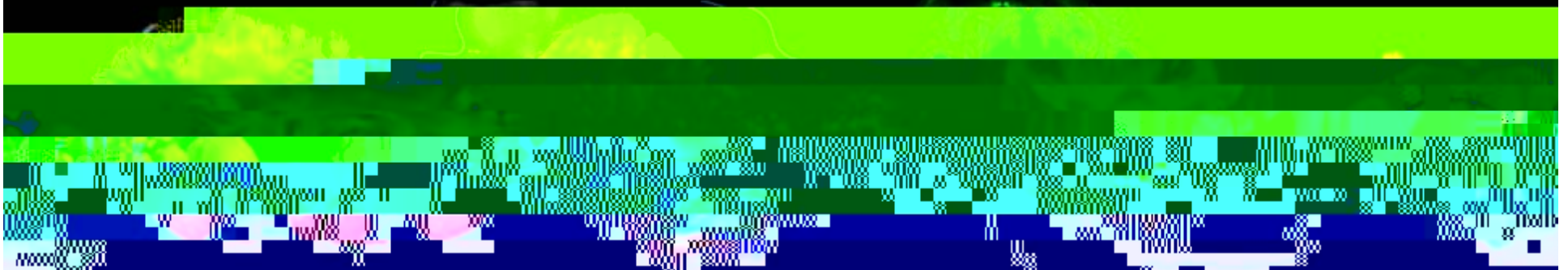
Unraveling Life's Mysteries through Basic Research: The BRAIN Initiative

f Last September, NIH's made its first investment in the Initiative's 12-year scientific vision with 58 awards

f FY16 request totals \$135 M – increase of \$70 M

f Funding will be used to:

- Develop innovative technologies to advance basic neuroscience
- Generate methods for classifying the brain's diverse cells/circuits
- Create/optimize technologies for recording and modulating groups of cells that act together in circuits
- Develop new, non-invasive tools for human brain imaging

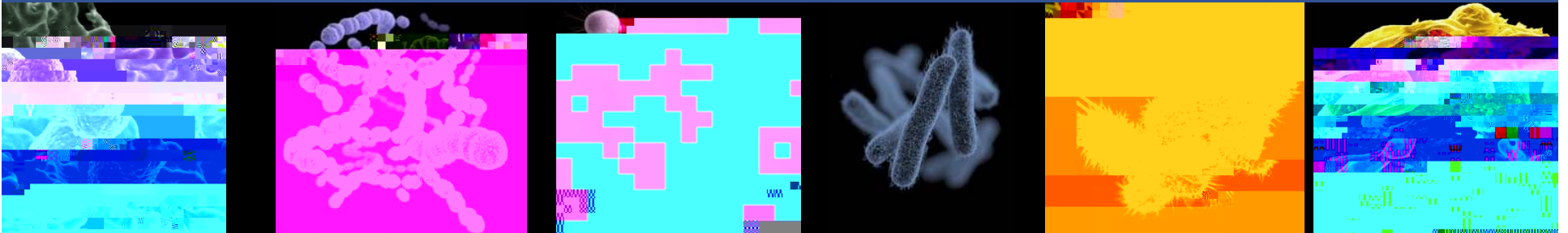


Translating Discovery into Health: New Strategies in Battle Against AMR

f Announced September 18, National Strategy for Combating Antibiotic-Resistant Bacteria (basis for \$100 M proposed increase in FY16)

f Research recommendations include:

- National database of genomic sequences of antibiotic resistant microbes that cause human infections
- Better diagnostics; NIH/BARDA will offer \$20 M prize
- New antibiotics and vaccines
- National clinical research network, building on the efforts of NIH Antibacterial Resistance Leadership Group



Translating Discovery into Health: Alzheimer's Disease, Accelerating Medicines

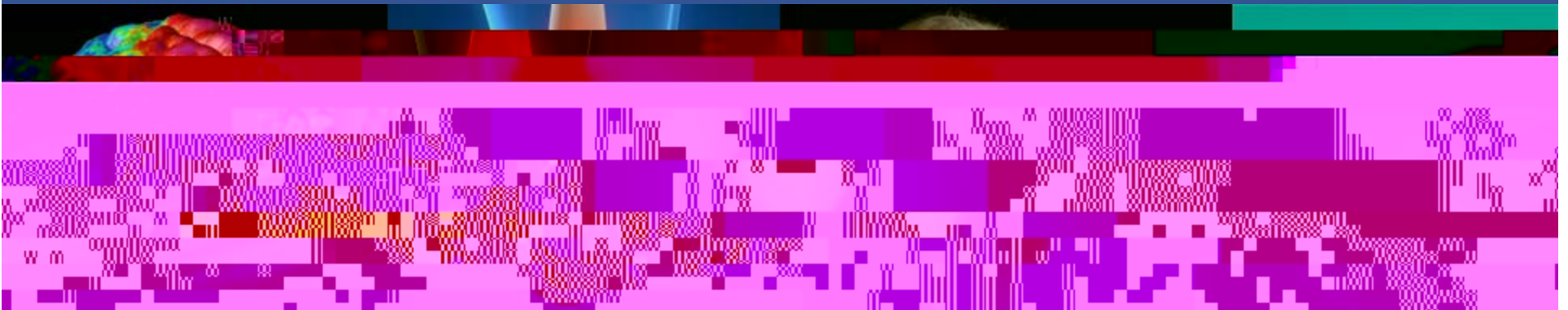
f Major investment in Alzheimer's disease (AD) research

f FY16 request totals \$638 M – increase of \$50 M

- Basic research in neuroscience
- Epidemiologic studies to identify risk and protective genes
- Clinical studies for early diagnosis and progression; >25 trials

f Accelerating Medicines Partnership (AMP)

- First projects: AD, type 2 diabetes, lupus, rheumatoid arthritis
- FY16 request totals \$23 million, same as FY15

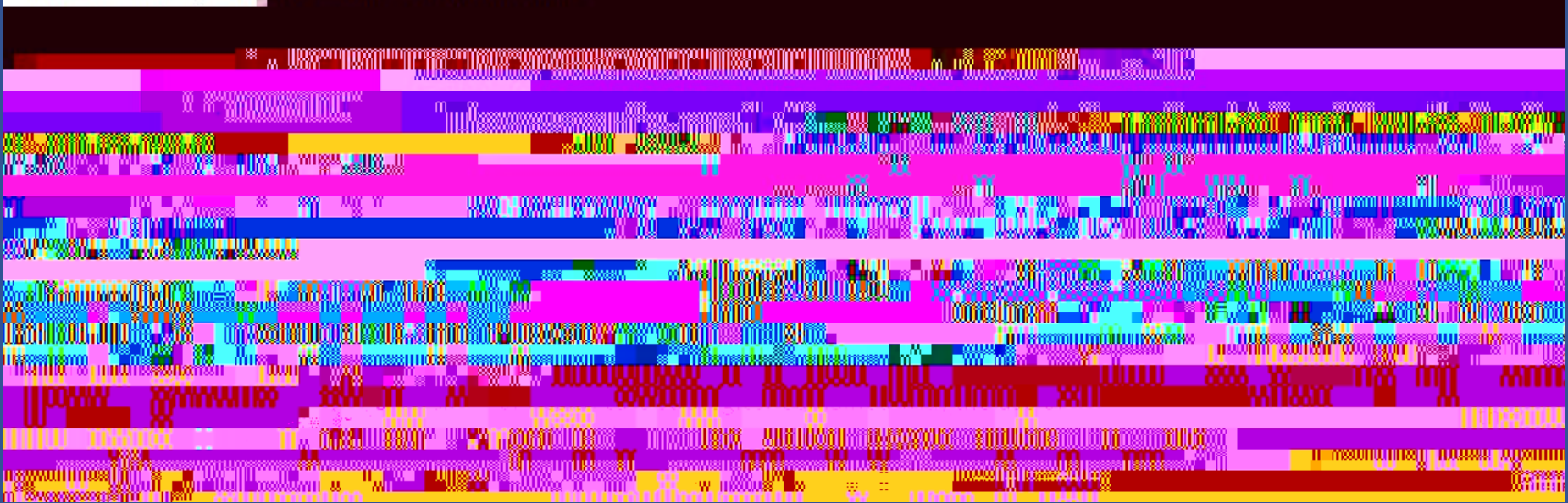


Preparing a Diverse & Talented Biomedical Research Workforce

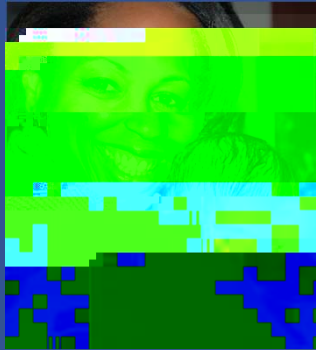
To encourage the next generation of scientists, NIH will continue to invest in:

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





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NIH... Turning Discovery Into Health

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