



Jeremy M. Berg National Institute of General Medical Sciences April 12, 2007





NIGMS Authorization

"The general purpose of the National Institute of General Medical Sciences is the conduct and support of research, training, and as appropriate, health information dissemination, and other programs with respect to **general or basic medical sciences** and related natural or behavioral sciences which have **significance for two or more national research institutes** or are outside the general area of responsibility of any other national research institute."





NIGMS Organization



Research

Training

Division of Cell Biology and Biophysics (Cathy Lewis, Ph.D. Director)

Division of Genetics and Developmental Biology (Judith Greenberg, Ph.D. Director)

Division of Pharmacology, Physiology, and Biological Chemistry (Michael Rogers, Ph.D. Director)

Division of Minority Opportunities in Research (Clifton Poodry, Ph.D. Director)

Center for Bioinformatics and Computational Biology (John Whitmarsh, Ph.D. Acting Director)

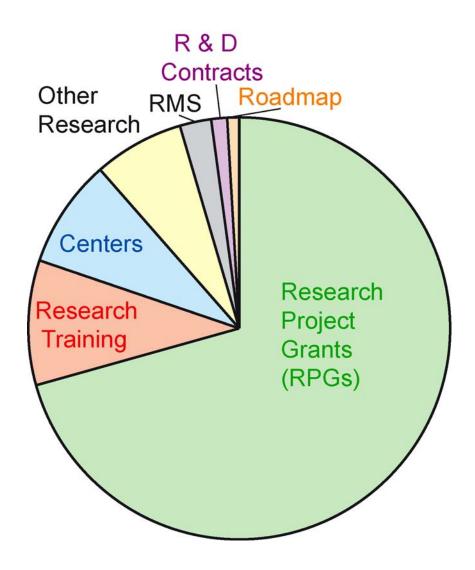
John Norvell, Ph.D., Assistant Director for Training







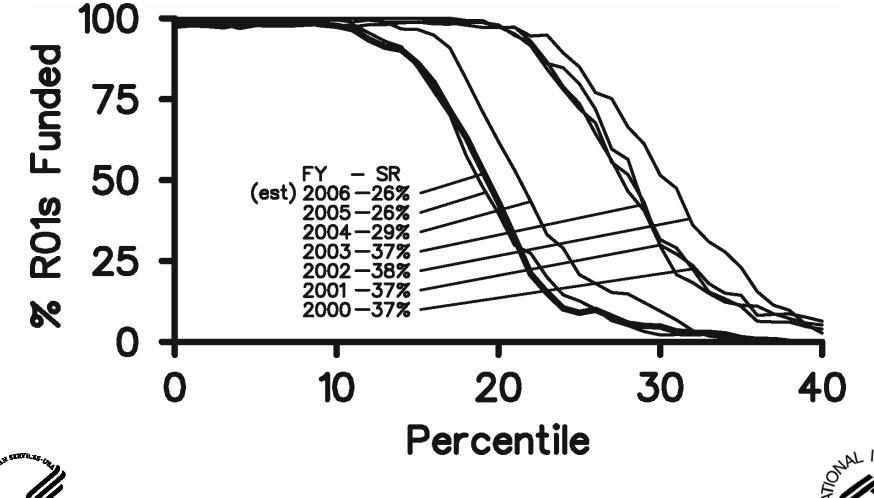
NIGMS Budget Overview







R01 Awards as a Function of Percentile

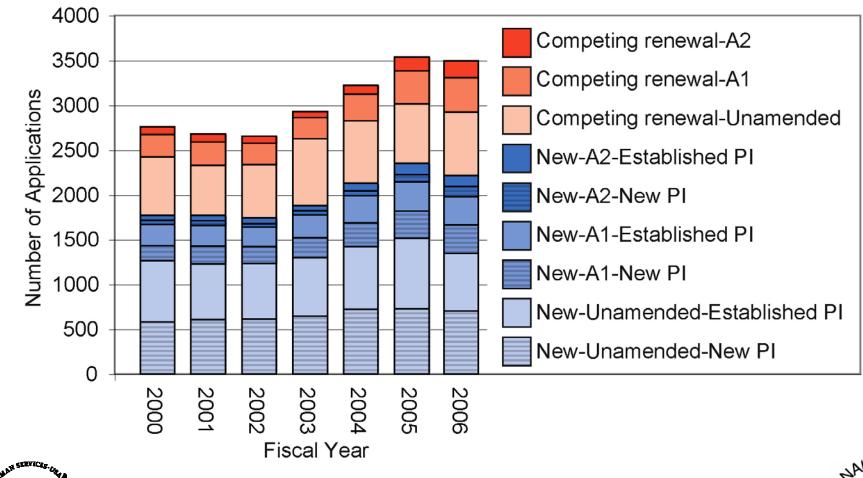








R01 Application Pool

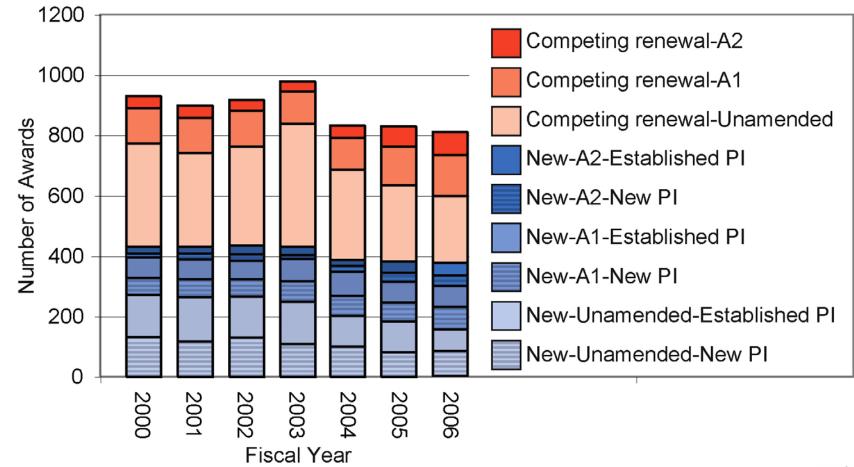








R01 Award Pool







Recent Congressional Action Regarding NIH

NIH Reform Act of 2006

- Strong endorsement of NIH
- Institutionalizes the Common Fund (Roadmap Fund) without a formula for growth
- Authorizes (but does not appropriate) substantial budget increases for FY2007-9

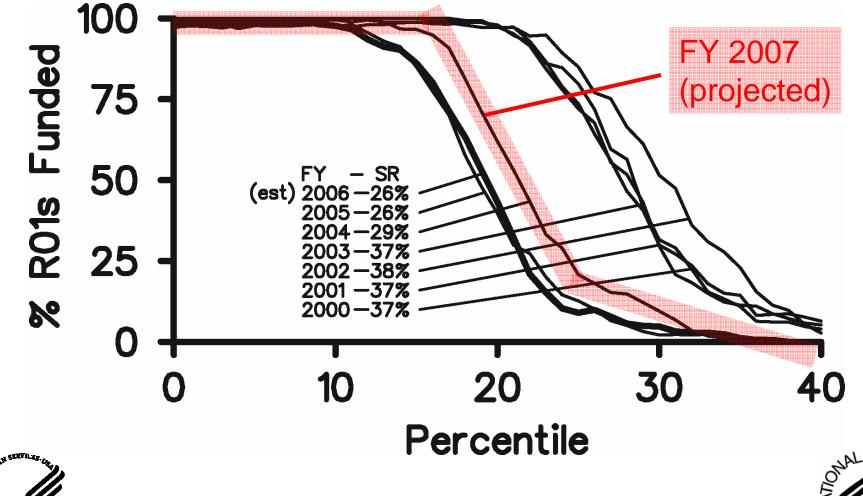
Joint Budget Resolution for FY2007

- Provides >\$600M more for NIH than previously anticipated
- Supports Common fund, institutes and centers, new investigators, vulnerable established investigators





R01 Awards as a Function of Percentile









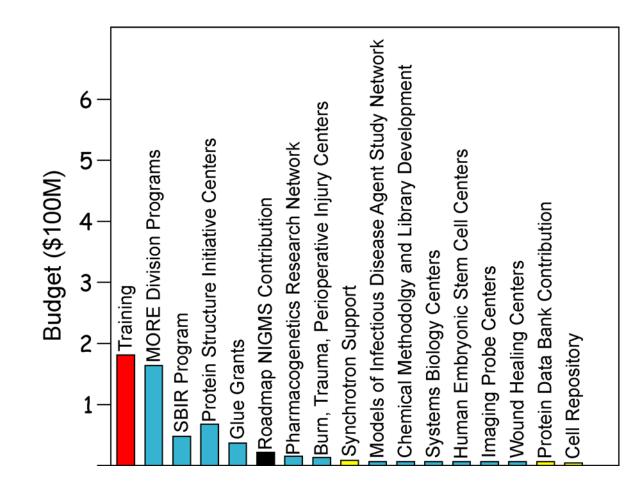
NIGMS Initiative Development

Concept Development Scientific community NIGMS staff Trans-NIH discussions Planning meetings Concept Approval NIGMS Senior staff NAGMS Council









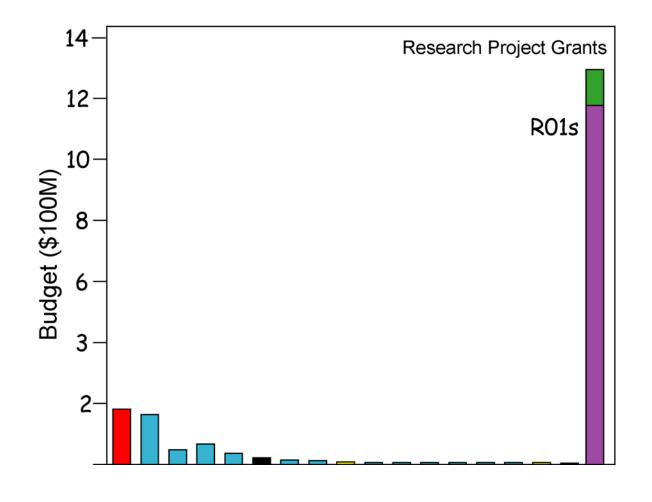




NIGMS Initiatives



NIGMS Initiatives

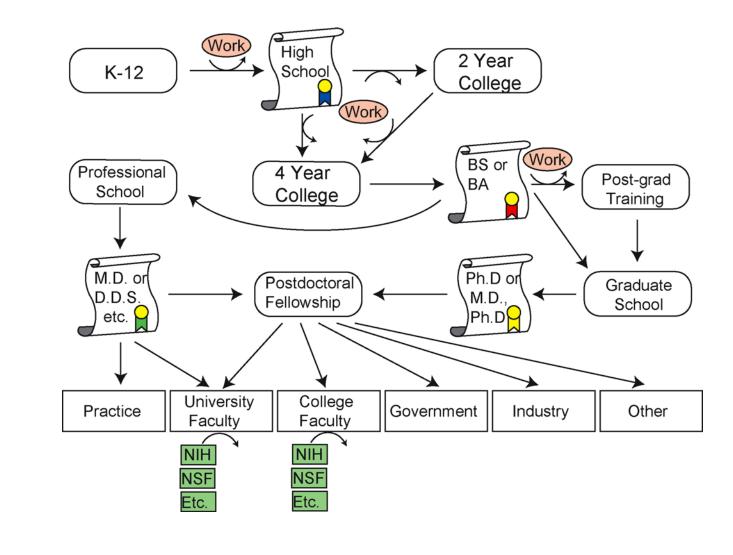








The Biomedical Workforce







NIGMS

Training

- Interdisciplinary/Interdepartmental training programs strongly favored
 - Medical Scientist Training Program (MSTP)
 - Cellular, Biochemical, and Molecular Sciences
 - Systems and Integrative Biology
 - Pharmacological Sciences
 - □ Genetics
 - Molecular Biophysics (1986)
 - Biotechnology (1988)
 - Chemistry-Biology Interface (1992)
 - Bioinformatics and Computational Biology (1999)
 - □ Interface of Behavioral and Biomedical Sciences (2007)
- One grant per program per university





Exceptional, Unconventional Research Enabling Knowledge Acceleration (EUREKA) Awards

- Replacement for NIGMS R21 program
- Specialized R01 mechanism
- Up to 4 years of support
- Up to \$800K direct costs over 4 years





NIGMS



Exceptional, Unconventional Research Enabling Knowledge Acceleration (EUREKA) Awards

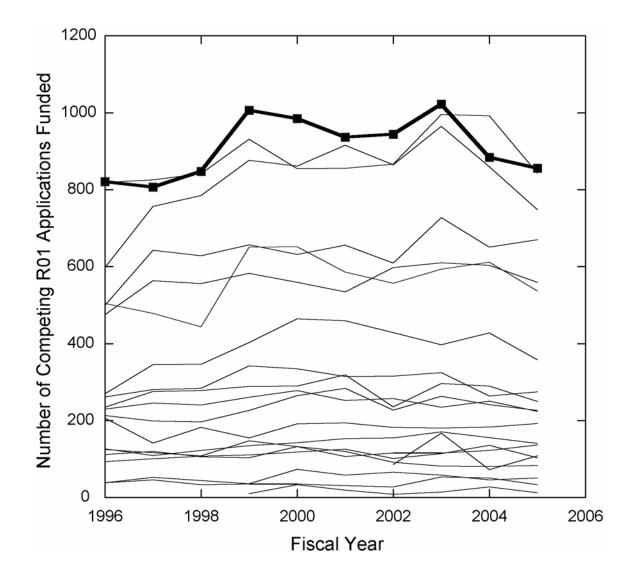
Short application: 8 pages

- template to address explicitly
- the importance of the problem
- novelty of the hypothesis or methodology
- the magnitude of the potential impact
- □ the size of the community affected
- Limited biographical sketch
 - publications: list 5 most relevant, 5 most significant, 5 most recent
 - paragraph describing qualifications for proposed research
- Preliminary data allowed, but not required





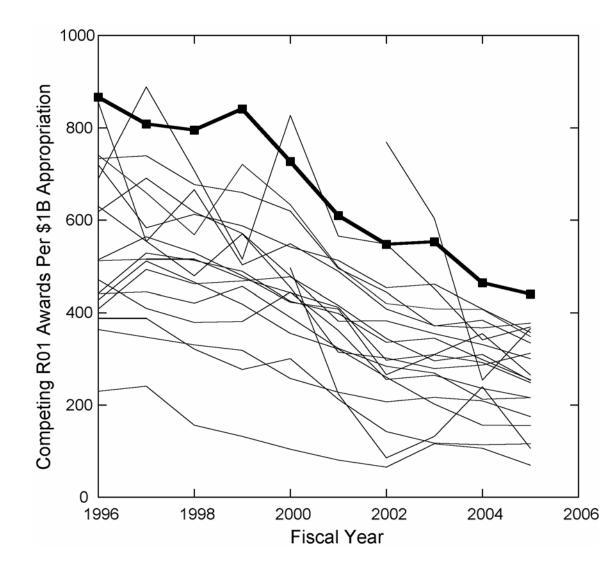
R01 Equivalent Awards Across NIH







R01 Equivalent Awards Normalized for Budget

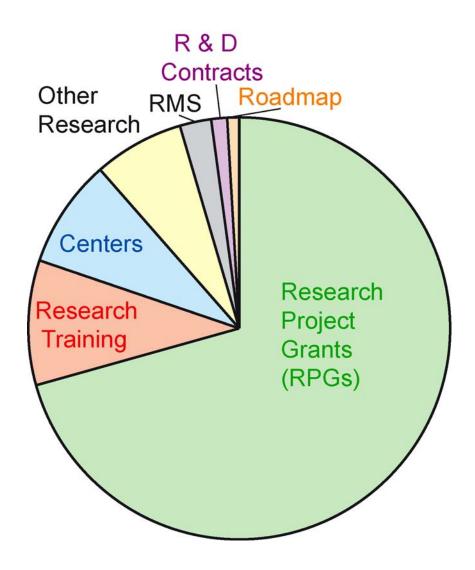








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NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES Partners in Discovery



October 2006