

# Themes and Messages for FY 2012



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# Topics for Discussions with NIH I/C Directors

- The post-ARRA period.
  - Areas of science that benefitted most from ARRA
  - Continuation of programs initiated under ARRA
- Impact of freeze or cut in FY 2012
- Impact of I/C's research on:
  - Advancing scientific and medical innovation
  - Improving health of communities and the nation
  - Contributing to economic growth
- Balancing basic and translational/clinical research
- Collaboration with other I/Cs, other Federal agencies, the private sector

# Impact of ARRA

- **Some budget effects too early to call**
  - Numbers of applications?
  - No-cost extensions?
- **Signature Projects**
- **Research Infrastructure: Technologies, Resources, Intellectual Capital**
- **Summer Research Experiences for Students and Educators**

# Impact of Budget Freeze or Cuts

- **Devastating impact on next generation**
- **Balance incentives for translational/clinical research with sustaining basic science**
- **More costly areas of science; e.g., medication development, CER**
- **Emerging areas of science**
- **Delay start of longitudinal resources; e.g. databases**
- **Reduced dissemination and outreach to patients/scientists**

# Genomics

- **Advances in sequencing technology/decreasing cost**
- **Increase understanding of biological basis for disease**
- **Identify molecular targets for treatment**
- **The Cancer Genome Atlas (TCGA)**
- **Human Microbiome Project (HMP)**

# Personalized Medicine

- **Stratify patients for research and treatment**
- **Responsiveness to drugs; e.g., warfarin, Plavix**
- **Diagnostic tests based on genetics or other molecular mechanisms**
- **Biomarkers**

# **Global Health**

- **Increasing incidence of chronic diseases**
- **Trans-NIH Working Group on Global Health**
- **Center for Research on Genomics and Global Health**
- **Medical Education Partnership Initiative (MEPI)**

# **Economic Impact**

- **Improved outcomes translate to a healthier workforce, increased productivity, and reduced health care and employer-paid treatment costs, resulting in an economic benefit that increases the nation's competitiveness in global markets**
- **Build a workforce of skilled scientists and technicians whose incomes contribute to local economies**



# Collaborations

- **Military and VA to better understand medical needs of military personnel, veterans, and families**
- **HMO-Research Network**
- **Studying Community Programs to Reduce Childhood Obesity**
- **Centers of Excellence in Global Health**
- **Disease Control Priorities Project (DCPP)**