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)