# Director's Update

Dr. John E. Niederhuber

**Director, National Cancer Institute** 

National Cancer Advisory Board February 3, 2009

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

National Institutes of Health

## FY 2008

- RPGs funded at the 14th percentile plus extensive exceptions (20% success rate)
- \*R01s funded at the 19th percentile extended payline plus exceptions (236 awards)
- NCI funded 1,284 competing RPGs in FY08 (including supplemental appropriation)
- NCI added 1 new Cancer Center
  - -Greenebaum Cancer Center, University of Maryland

Congratulations to NCI's budget office for closing the books on FY08 with a balance of \$3,302.

FY 2008 operating budget (w/supplemental)	\$4,830,647
FY 2009 Continuing Resolution	\$4,805,088
Difference, FY08 to FY09	-\$25,559
Percent change, FY08 to FY09	-0.5%

(dollars in thousands)

		Amount (in thousands)	Percent change
Subtotal Availal	ole	-\$25,559	-0.5%
Less est. NIH ta	ps/assessments incr.	-15,000	
<ul><li>Potential NIH</li></ul>	Director's 1% transfer	?	
<ul><li>Potential HHS</li></ul>	Secretary's transfer	?	
<ul><li>GEI transfer</li></ul>		?	
	Subtotal available	-40,559	-0.8%

	Amount (in thousands)	Percent change
Subtotal Available	- \$40,559	-0.8%
NCI-wide Requirements:		
<ul> <li>Mandated salary increases</li> </ul>	- 21,500	
<ul> <li>Rent/lease/utilities/renovations incr.</li> </ul>	- 10,900	
<ul><li>AIDS redirections</li></ul>	- 15,000	
<ul> <li>Small Business Program increase</li> </ul>	0	
NCI Director's Reserve	- 35,000	
Return FY08 SAIC division recoveries from contract closeout	-52,209	
<b>Subtotal Available</b>	- 175,168	-3.6%

	Amount (in thousands)	Percent change
Subtotal Available	- \$175,168	-3.6%
Research Project Grants:		
<ul> <li>Noncompeting/Admin Supps</li> </ul>	29,873	
• Competing (12 <sup>th</sup> % under CR)	26,362	
Subtotal Available	- 118,933	-2.5%

Amount (in thousands)

Percent change

#### **Subtotal Available**

- \$118,933

- 2.5%

#### Potential Recoveries/Redeployments:

<ul> <li>Phaseouts/Reductions Res DOCs</li> </ul>	25,169
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Phaseouts/Reductions Infrastructure 3,425

Other Research Grants – 3% Reduction 1,989

NCI-Frederick Contract Transition 70,000

Division One Time Recoveries 17,476

**Subtotal Available** 

-874

**- 0%** 

Amount (in thousands)

Percent change

**Subtotal Available** 

-\$874

- 0%

#### At this date what spendable resources do we have?

RPG RFA Pool 65,000

Director's Reserve 35,000

Facilities Setaside 10,000

Available for Requests under CR \$109,126

There are also dollars in division base budgets for division-controllable RFA reissuances

## What Else Might Happen?

- Available for requests under CR: \$109 million
- Available under a potential 2.2% increase: \$189 million
  - Includes \$10 million for facilities
  - Assumes higher payline and better COLAs for noncompeting
  - Covers the higher-than-anticipated federal payraise
- Economic stimulus could add another \$125 million a year for 2 years
  - Anticipate funds would be highly directed, through Challenge Grants
  - NCI could get comparative effectiveness research funds
  - NCI could benefit from additional renovation money

# Economic Stimulus

Senate Finance Comm. began mark-up on its version Jan. 29. Sen. Specter may propose adding \$10B over 2 years to NIH.

- \$300M for NCRR: shared instrumentation and capital research equipment
- \$2.7B for the NIH OD: half to the ICs., for efforts that can be completed in 2 years. Priority on grants on specific scientific challenges; new research expanding the scope of ongoing projects; research on public health priorities; and stem cell research
- \$500 million to the B&F for constructing, improving and repairing NIH buildings and facilities
- Comparative effectiveness research: \$300M to AHRQ, \$400M to NIH, 400M to HHS

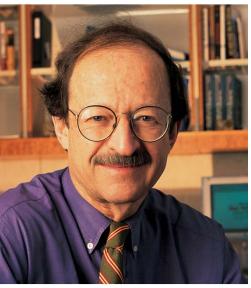
## Obama Administration



- Tom Daschle, Secretary of Health and Human Services
- William Corr, Deputy Secretary
- Steven Chu, Energy Secretary
- John Holdren, Science Advisor



Eric Lander, co-chair of the President's Council of Advisors on Science and Technology



Harold Varmus, co-chair of the President's Council of Advisors on Science and Technology

#### Transition Toom

## Five Strategies for Accelerating the War on Cancer in an Era of Budget Deficits

James H. Doroshow, Robert T. Croyle, and John E. Niederhuber "The Oncologist" Commentary – 2009; 14

## Prototyping A Twenty-First-Century Biomed System Through Cancer

Kenneth H. Buetow, John E. Niederhuber "Health Affairs," Jan. 19, 2009

## Facilitating Patient-Centered Center Research and a New Era of Drug Discovery

John E. Niederhuber (in press)

#### **Vision for the Future of FDA**

Brookings Institute Conference, Wash., D.C., Sept. 26, 2008 Remarks by David Epstein, President & CEO, Novartis Oncology (in press)

### Four Important Steps Toward 21st Century Care for Patients with Cancer

Mark McClellan and Joshua S. Benner (in press)

#### Priorities of New Administration

- Healthcare coverage and affordability
- Access and quality of care
- Innovation through science
- Attracting and training the next generation
  - Cancer Centers network
  - NCCCP network
  - BIG Health<sup>™</sup> Consortium and IT history (caBIG<sup>®</sup>)
  - Biology to translation infrastructure
  - Clinical applications based on evidence

# Meeting with Mark McClellan

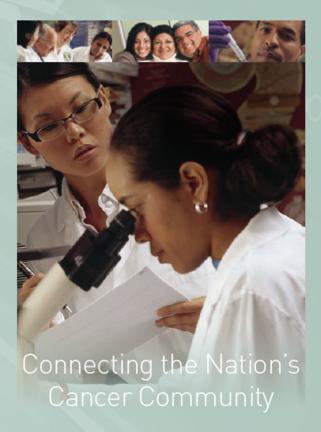
Follow-on to Sept. 26, 2008 Brookings Institution Conference on Clinical Cancer Research

- Cancer can serve as a model: clinical applications based on evidence, IT infrastructure, basic biology, etc.
  - We must continue chipping away at barriers to clinical research and build a new model for development of targeted therapies
- It will be important to talk about the changes required in biomedical research within in the context of the new administration's priorities

# Meeting with Mark McClellan

- Cancer is the arena for the investigation of molecular medicine
  - No other disease type has the necessary expertise and infrastructure
- Need to build partnerships to develop knowledge around molecular medicine in real-time situations
- Partnerships with CMS should be developed, to pay for diagnostic tests within a set of identified circumstances to allow for further study
- The opportunity to co-develop diagnostic and preventive interventions should be further explored – including effective biomarker validation

The Nation's Investment in Cancer Research



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# EC Scientific Retreat



# EC Retreat: Robert Austin

#### **Keynote Address: "Is Cancer a Disease?"**

- Ordinary Darwinian evolution (random SNP mutations followed by natural selection) is unlikely to lead to complex organisms
- Evolution works most efficiently by large scale genomic changes/rearrangements, not SNPs
- The price of high evolution rates is cancer
- Cancer is necessary for high rates of evolution and is not a disease

Build interdisciplinary teams

# 2009 EC Retreat

Integrate all 'omics'

Study individuals
who are at high

Identify predictive

Create a

who are risk for d cancer are are are deviced to the control of th

 Real time assays of the stressors and responses that initiate and sustain cancer invent the cademic proach to science eers/change vard systems

Measure and Measur

Model the evolution of cancer with a focus on alterations in the stroma/niche/microenvironment

mprove realime imaging of cancer

Supplement high risk projects  Understand the epigenetic changes that control the type and number of cancer cells

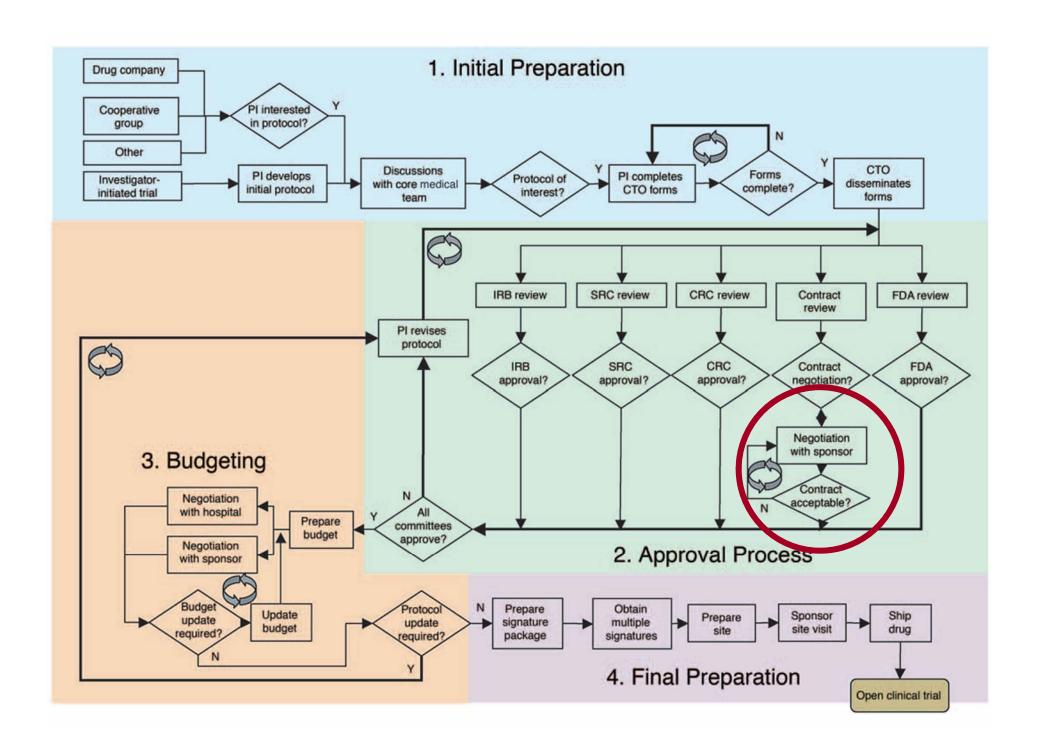
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with
mechanisms
of cancer

ananassets of populations based cohort studies

actual/real translational projects

# NCI Clinical Trials System: Current Status

- System is inefficient, time consuming, and under-funded
- In an era of targeted therapy, the system is geared toward the testing of non-specific regimens
  - Lacks the capacity to highly characterize each patient and carefully match that patient profile to targeted therapeutic combinations



Life Sciences Consortium Common Language

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## CEO Roundtable on Cancer

- Founded in 2001 by Pres. George H.W. Bush
  - "Do something bold and venturesome about cancer"
  - 28 members; 20 honorary members
- Life Sciences Consortium
  - 11 companies
  - Chair: Dr. Gregory Curt of AstraZeneca

# Project Structure

- Involved legal and business representatives from participants
  - 17 reps. from LSC companies
  - 26 reps. from NCI-Designated Cancer Centers
- Obtained copies of 78 clinical trial agreements from participating organizations
  - 49 redacted copies of final negotiated agreements
  - 29 agreement templates
    - Approximately equal numbers of agreements from LSC companies and Cancer Centers
    - Agreements included company-sponsored and investigator-initiated trials

# Agreement Analysis

- Identified 45 key concepts in the 7 clause categories
- Captured exact language that embodied these concepts for all 78 agreements
- Organized agreement language into categories representing embodied concept
- Analyzed results for similarities and differences in key concepts across final negotiated agreements
- Analyzed template agreements for key differences with negotiated agreements

# Key Clauses

- Through discussions with legal and business representatives, identified:
  - Intellectual property
  - Study data
  - Subject injury
  - Indemnification
  - Confidentiality
  - Publication rights
  - Biological samples

# Intellectual Property

#### Company-Sponsored Trials

- Inventions owned by company
- Research institution retains right to use inventions for non-commercial research and education

#### Investigator-Initiated Trials

- Inventions owned by research institution
- Research institution grants company a royalty-free, non-exclusive license and an option to obtain a royalty-bearing exclusive license



"The Department of Justice announced today that it will not oppose a proposal by the CEO Roundtable on Cancer to develop and publicize model contract language for clinical trials of potential new cancer treatments."

Department of Justice press release Wednesday Sept. 17, 2008

# Moving Beyond Common Language

Life Sciences Consortium, CEO Roundtable, NCI, FDA, and academia must tackle "common data elements"

# NCI's Challenges

- Anticipate science: know where science and technology are leading us
- Improve our portfolio: fill the gaps and strengthen by soliciting and incentivizing
- Conduct science at the intersection of disciplines
- Facilitate our ability to maximally work across divisions
- Optimally use precious resources
- Ultimately, translate our findings

