

Concept Clearance

Center for Inherited Disease Research

**National Advisory Council for Human Genome Research
September 8, 2014**

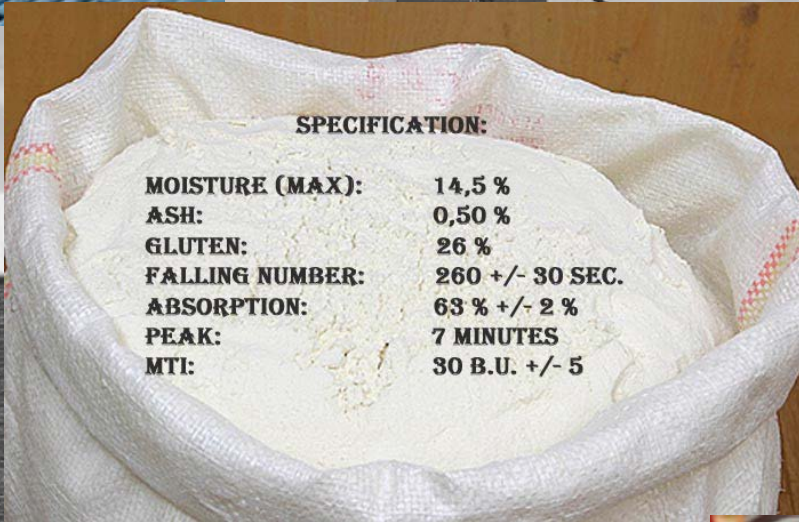
Concept Questions

- 1) Should NIH fund a central facility supported by multiple ICs to carry out large scale genomic analyses on samples from many projects?**
- 2) Should this facility retain flexibility with regard to what genomic services and in what scope are offered?**
- 3) Is it a good idea to do this in such a way that if the services are not needed funds will not be required?**

Inter-Institute Programs

Shared

- Expertise
- Governance
- Resources
- Research projects
- Economies of scale



SPECIFICATION:

MOISTURE (MAX):	14,5 %
ASH:	0,50 %
GLUTEN:	26 %
FALLING NUMBER:	260 +/- 30 SEC.
ABSORPTION:	63 % +/- 2 %
PEAK:	7 MINUTES
MTI:	30 B.U. +/- 5



Center for Inherited Disease Research

- Founded in 1996 to speed the discovery genes that contribute to disease

- Supported by 13 NIH Institutes

**NHGRI – NCI – NEI – NIA – NIAAA
NIAMS – NICHD – NIDA – NIDCD – NIDCR
NIDDK – NIEHS – NINDS**



TRIAD Technology Center
Baltimore

Center for Inherited Disease Research

- SNP Genotyping
 - Human Genome Wide Association Studies
 - Custom Genotyping
 - Focused Content Panels
 - Methylation
 - Linkage
 - Oncoarray
- Next Gen Sequencing
 - Targeted
 - Exome
 - Whole genome
- Statistical Analyses



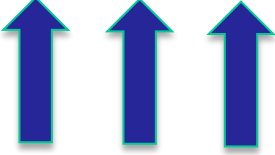


Center for Inherited Disease Research

Governance

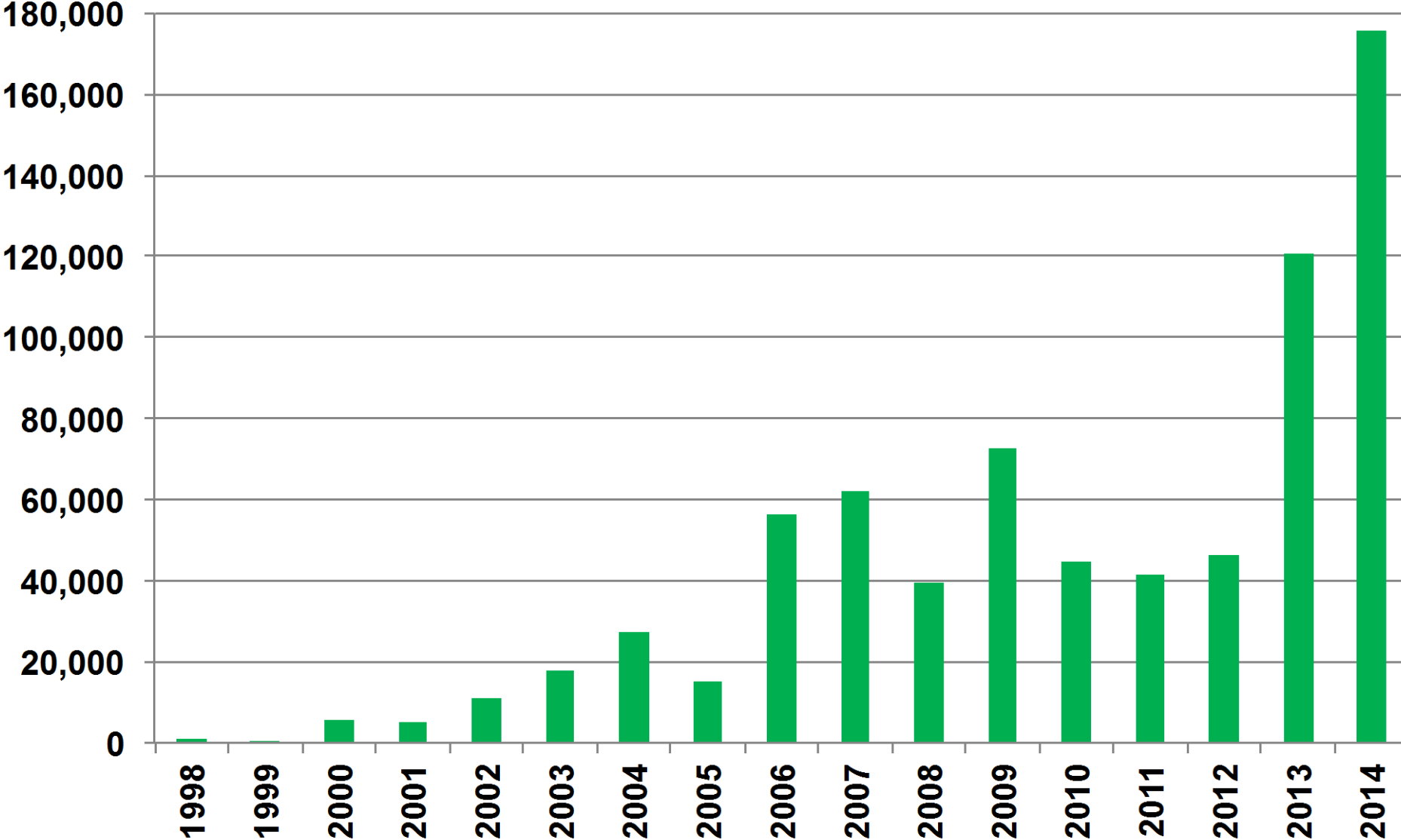
- Board of Governors – 6 times / year
- CIDR Access Committee - 6 times / year
- CIDR Staff Meetings – every other week
 - COR & Chief Scientific Officer
- NHGRI Budget Office
- NHLBI Contracting Office

Center for Inherited Disease Research

Trends (2008-2014)

- Number of Projects 
- Cost per Genotype 
- Size of Projects 
- Full-Time Staff 
- Administrative Costs 

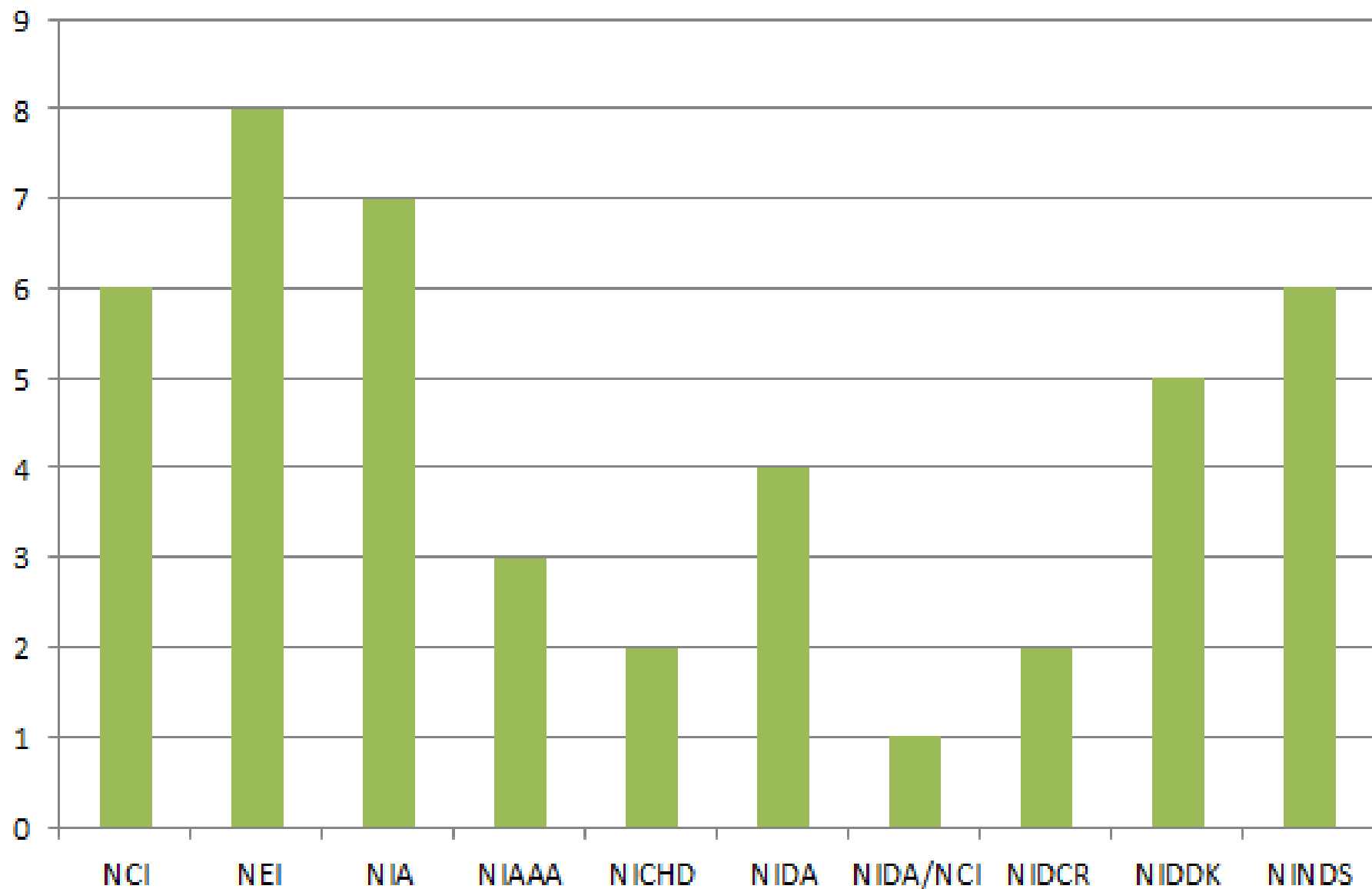
CIDR Program Completed Samples per FY



CIDR Project - Sources



Number of Projects Posted to dbGaP



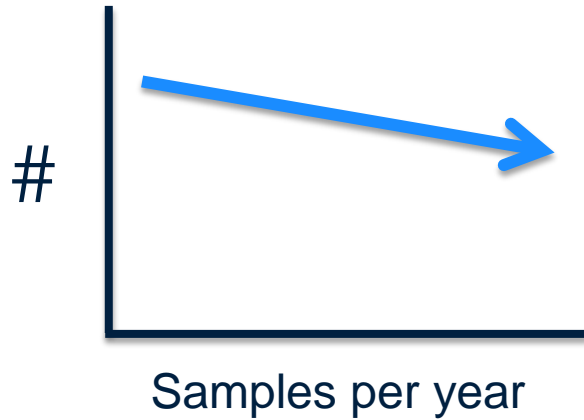
Snapshot - Summer 2014

Active Projects - 101,108 samples on site

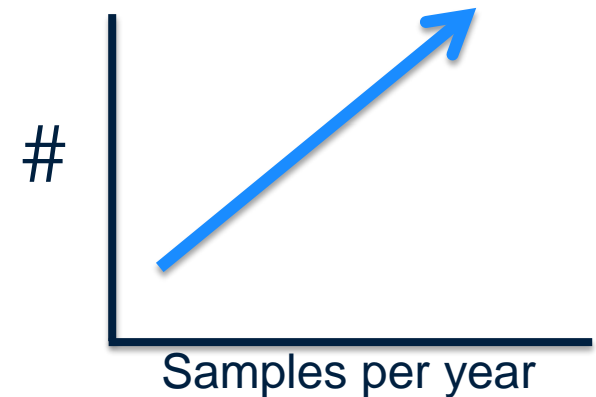
Data production - ~30,000 samples

The Future

Array Based



Sequenced Based



CIDR Program Renewal Proposed Mechanism and Funds

Mechanism

- **Research and Development Contract**
- **ID IQ**
- **5-7 year term**

Funds

- **\$10M- \$150M over 5-8 years depending on volume**
- **NHGRI funds – nil**

Open Competition

- **Contract solicitation and review**
- **One award**