National Cancer Informatics Program (NCIP)
Briefing to the 1st Joint NCAB/BSA Meeting

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• Activities encompassed within NCIP
  – Interoperability and data access technology to support advanced biomedical research/care
  – Biomedical informatics research and development
  – *In silico* research
  – Informatics education and training

• Other activities of CBIIT
  – Operational support for biomedical informatics
  – Full life-cycle support for business operations at the NCI
  – Provision of standard commoditized IT support
  – Coordination of NCI IT investments
Launch Meeting of NCIP

- Launch meeting took place at the Natcher Conference Center on 31 May 2012
- 49 invitees on site that represented a broad range of expertise in genomics, clinical and translational research and informatics
- Between 250 and 300 people on the phone at most times
- NCI Director Harold Varmus charged us to come to a consensus on the IT needs of the NCI supported cancer research community
- Meeting materials posted at: [http://ncip.nci.nih.gov](http://ncip.nci.nih.gov)
Structure of Meeting

• Session 1: Genomics
  – Andrea Califano – Columbia
  – Chris Sander – Memorial Sloan-Kettering
  – Barbara Wold – Caltech/NCI
  – Kevin White – University of Chicago

• Session 2: Clinical and Translational Sciences
  – Amy Abernethy – Duke
  – William Dalton – Moffitt
  – Mia Levy – Vanderbilt
  – Joel Saltz – Emory

• Session 3: Standards
  – Rebecca Kush – CDISC
  – Stan Huff – Intermountain Health Care
  – Philip Payne – Ohio State University
  – Chris Chute – Mayo Clinic
Key Drivers of a National Cancer Informatics Program

• Aligned with the mission and vision of the NCI and driven by needs of the cancer research and care community

• Embedded in all key programs and activities of the NCI

• Just enough governance

• Open and transparent

• Accountable

• Integrated with other informatics initiatives

• Sustainable
Implementing Activities in NCIP

- NCIP projects will begin as direct support for scientific initiatives
- Where successful and needed, pilot projects may be hardened/generalized for wider distribution
- NCIP informatics projects will be integrated into the scientific projects that they support
- Success of NCIP projects will be determined by success of the scientific initiative
Moving forward with NCIP

• Working groups will be constituted to continue the discussion of needs and possible projects

• Initial focus areas identified during discussions
  • Access and computing on large scale genomics data
  • Support for precision medicine pilots
  • Integration of informatics into core programs

• Still need to provide core biomedical informatics capabilities to ongoing NCI research initiatives
The Broader Informatics Landscape

Standards Bodies
- CDISC
- HL7
- IHTSDO

NIH Informatics Initiatives
- BTRIS
- CRIS
- NCBI/NLM
- Trusted Partners Program

Regulatory Agencies
- FDA
- ONC
- NIST

Commercial Entities
- CDMS Vendors
- EHR/PHR Vendors
- Research Systems
- Pharmaceutical Industry

Other NIH Institutes
- CTSAs
- BIRN
- CVRG
- NCBCs

Government IT Oversight
- OMB
- OSTP
- HHS CIO
- NIH CIO

NCI Sponsored Programs
- Cancer Centers
- NCCCPs
- SPOREs
- Cooperative Groups

Regulations
- FISMA
- HIPAA
- Common Rule
- 21 CFR 11

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Discussion/Feedback