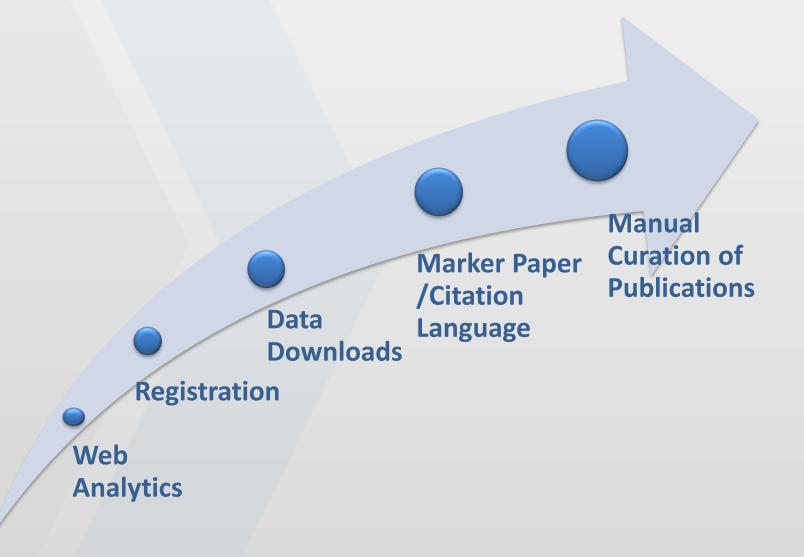
Tracking Utility of Common Fund Data Sets

Stephanie Courchesne-Schlink, PhD
Team Leader for Policy, Planning,
Evaluation, and Communication
Office of Strategic Coordination





Tracking Use of Data Sets



Sustainability Plans

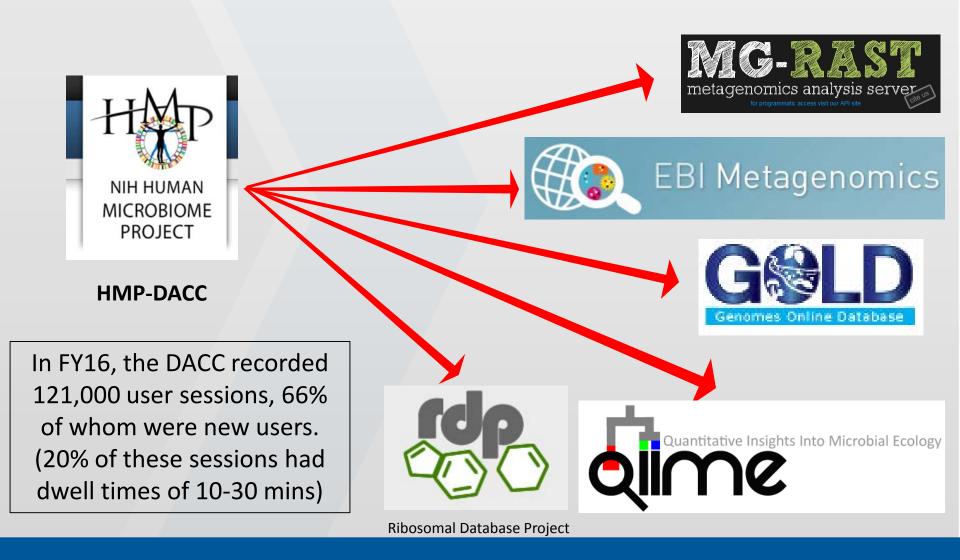
Where does the data go when Common Fund support ends?

Data sets are proving sufficiently useful that other entities are taking them up

- Housed at NCBI (NIH)
- NIH ICs or other entities take over database
- Data uploaded to cloud server (NIH Data Commons)



HMP data sets: Centralized at the DACC and incorporated into other databases



Tracking Research Outputs from HMP Data Sets

Create a library of papers that mention HMP or that cite the main HMP consortium publications

Show more

Remove papers that acknowledge funding from HMP grants

Manually curate remaining papers to determine which used the HMP datasets in their study

(107 papers as of Oct 2016)





Clinical Infectious Diseases

MAJOR ARTICLE







Fecal Microbial Transplants Reduce Antibiotic-resistant Genes in Patients With Recurrent Clostridium difficile Infection

Braden Millan, 1a Heekuk Park, 1a Naomi Hotte, 1 Olivier Mathieu, 2 Pierre Burguiere, 2 Thomas A. Tompkins, 2 Dina Kao, 1b and Karen L. Madsen 1b ¹Department of Medicine, University of Alberta, Edmonton, and ²Lallemand Health Solutions, Montreal, Quebec, Canada

PubChem

A component of the Molecular Libraries program









Today's Statistics >

Compounds: 92,877,506
Substances: 225,657,975
BioAssays: 1,218,736

Tested Compounds: 2,283,551 Tested Substances: 3,597,363

RNAi BioAssays: 95

BioActivities: 231,328,738

Protein Targets: 10,182 Gene Targets: 20,208

Dec. 19, 2016

- Averages between 2 and 10 million page views per day
- 1.5 million unique interactive users per month
- Integrated into key scientific web-based resource sites (PubMed, MeSH, ChemIDplus, FDA, NIST, USTPO, DrugBank, GSK, IBM, Nature, Sigma-Aldrich, etc.)



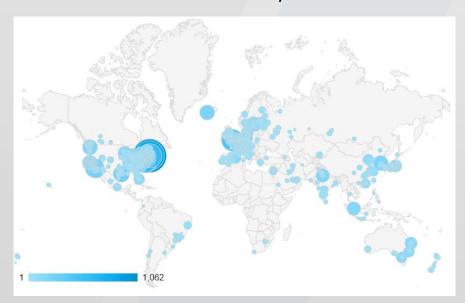
Genotype-Tissue Expression

Data sets to study relationship between genetic variation and gene expression

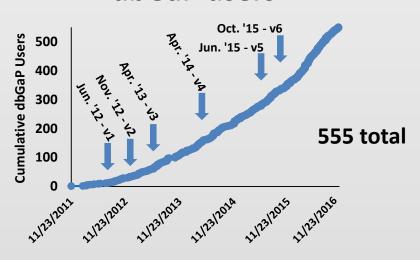
GTEx Portal Users

Registered users	Unique users	# different countries
9,210	48,454	>90

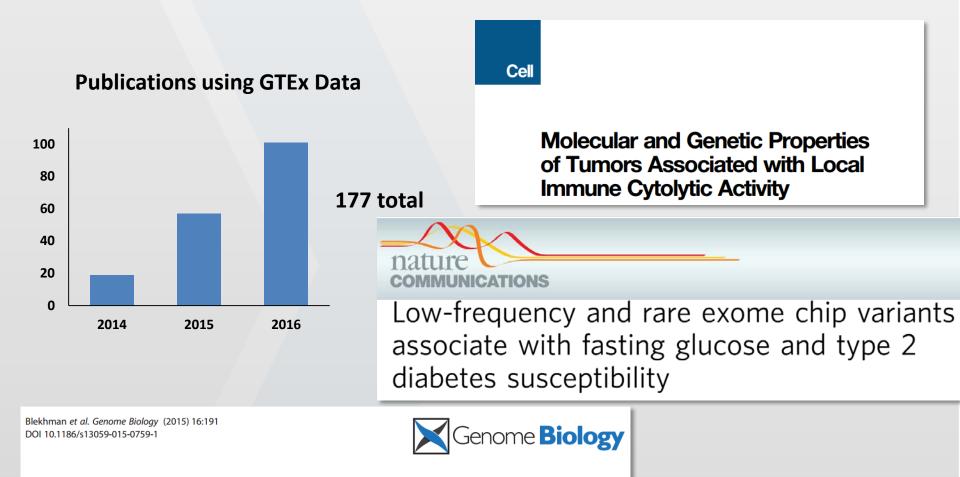
~8000 unique visitors/month; ~53% academic & ~25% Biotech/Pharma



dbGaP users



Use of GTEx Data



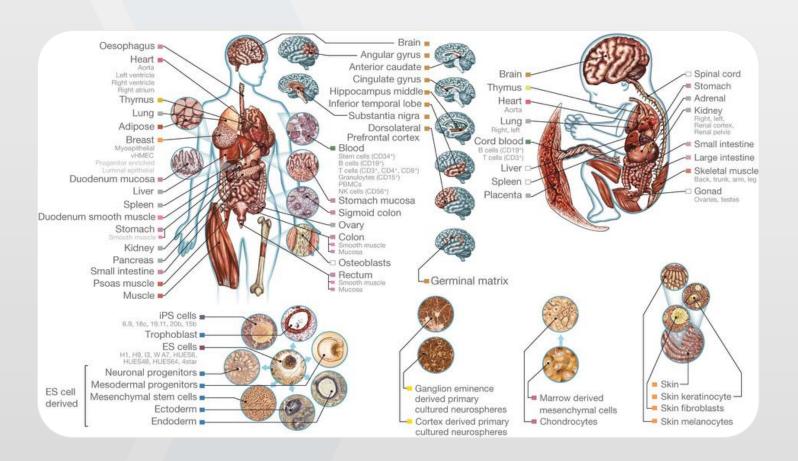
Open Access

(CrossMark

Host genetic variation impacts microbiome composition across human body sites

RESEARCH

Roadmap Epigenomics Program



Developed 111 reference epigenomes from a variety of human cells and tissues

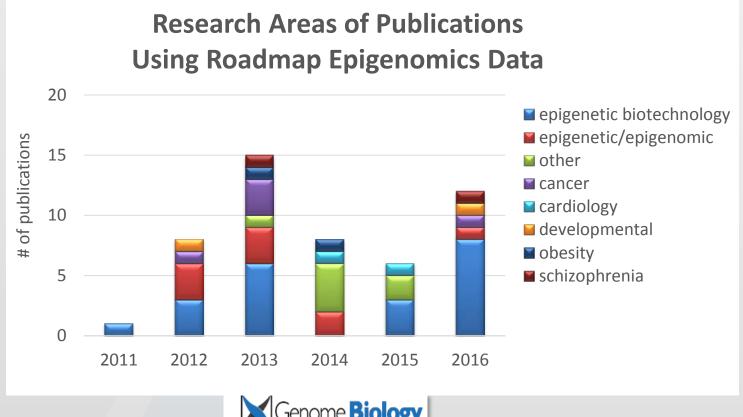
Reference Epigenomes Data Usage

Browser Visits



- Approximately 12M visitors in 1 year alone; data combined across multiple CF-supported browsers
- Data now accessed mostly through ENCODE and IHEC

Using Reference Epigenome Maps





RESEARCH

PLOS GENETICS

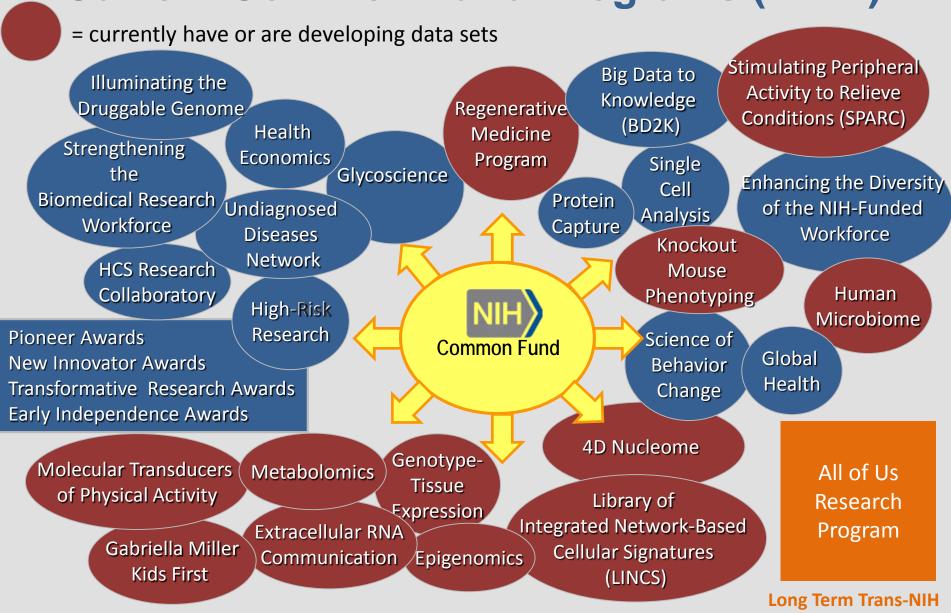
Genome-wide signatures of differentia RESEARCH ARTICLE leukemia

methylation in pediatric acute lympho Disproportionate Contributions of Select Genomic Compartments and Cell Types to Genetic Risk for Coronary Artery Disease

Thank you!

Questions?

Current Common Fund Programs (FY17)



Program

www.commonfund.nih.gov