

adding personal data to pharmaceutical data:
leverage from the commons
@wilbanks
3/31/14

Converting Anecdotes Into Signals



30
Stephen Friend
Stephen Friend at TED 2014



Sage Bionetworks CEO spoke from the main stage yesterday at TED 2014 in Vancouver. He announced the R and Mt Sinai that is looking for healthy individu... [Read more >](#)

Philosophy

Our Work

Platforms and Services

Ph

Wk

Ps

every age has its own
lever.

ours is cheap data.



cheap data changes
how we justify our
opinions.



$$\begin{aligned} \text{OPS} = & \text{AB}(\text{H} + \text{BB} + \text{HBP}) \\ & + \text{TB}(\text{AB} + \text{BB} + \text{SF} + \text{HBP}) \\ & / \text{AB}(\text{AB} + \text{BB} + \text{SF} + \text{HBP}) \end{aligned}$$

cheap data is
changing our politics.



Gmail

facebook



Hotmail

YAHOO!

Google



skype

paltalk.com

YouTube

AOL mail

(TS//SI//NF) PRISM Collection Details



Current Providers

- Microsoft (Hotmail, etc.)
- Google
- Yahoo!
- Facebook
- PalTalk
- YouTube
- Skype
- AOL
- Apple

What Will You Receive in Collection
(Surveillance and Stored Comms)?

It varies by provider. In general:

- E-mail
- Chat – video, voice
- Videos
- Photos
- Stored data
- VoIP
- File transfers
- Video Conferencing
- Notifications of target activity – logins, etc.
- Online Social Networking details
- **Special Requests**

Complete list and details on PRISM web page:

Go PRISMFAA

cheap data is going to
change our health.



1. research data v.
cheap consumer data



- My Home
 - Inbox (5)
- My Health
 - Disease Risk
 - Carrier Status
 - Drug Response
 - Traits
 - Health Labs
- My Ancestry
 - Maternal Line
 - Paternal Line
 - Relative Finder
 - Ancestry Painting
 - Global Similarity
 - Ancestry Labs
- Sharing & Community
 - Compare Genes
 - Family Inheritance
 - 23andMe Community

disease risk

Share my health results with family and friends

Show results for John Wilbanks

[See new and recently updated reports »](#)

23andMe Discoveries were made possible by 23andMe members who took surveys.

Elevated Risk

Name	Confidence	Your Risk	Avg. Risk	Compared to Average
Prostate Cancer	★★★★★	31.9%	17.8%	1.79x
Psoriasis	★★★★★	22.4%	11.4%	1.98x
Alzheimer's Disease	★★★★★	14.2%	7.2%	1.98x
Ankylosing Spondylitis	★★★			
Asthma	★★★			
Bipolar Disorder: Preliminary Research	★★★			
Chronic Lymphocytic Leukemia	★★★			
Follicular Lymphoma	★★★			
High Blood Pressure (Hypertension)	★★★			



BLUE BUTTON

[Blue Button Home](#)
[Getting Started](#)
[License the Blue Button®](#)
[Blue Button Partners](#)
[Resources](#)
[VA Homepage](#)
[Site Search](#)



Blue Button Download My Data



Need to Know: Update for Blue Button Partners

The rollout of the upgraded Blue Button on September 29 and October 9 means enhancements for our Veterans who download their health care data from VA's electronic health records. For our industry partners it means enhancements and improvements for their supporting software's functionality.

Based on Veteran user feedback, the minor enhancements in this rollout will make the output more readable and user friendly. There is also a new set of data for 'VA Immunizations,' enhancements to the online user interface and improved data from the Military Service Information (MSI) section. We have provided these instructions on our [Resources page](#) along with updated sample files.

One Million Blue Button Users - Veterans Talk to Markle



Manage Your VA Health Care Online

Blue Button Partners

Industry is building applications to help Veterans use the Blue Button to better manage their health or find employment. See which companies have committed to supporting the Blue Button Initiative on our list of [Blue Button partners](#).

If your organization has created an application for Blue Button and would like to be added to this list, email us at VABlueButton@va.gov.

DISCLAIMER: VA does not endorse these products or companies.

The Scientific Services Marketplace

The easiest way to get experiments conducted by researchers in top core facilities and institutions.

RNA microarray

\$107.50
per Sample

DNA Sequencing

\$2.50
per Sample

Real Time qPCR

\$3.50
per Sample

Mass Spectrometry

\$10.00
per Sample

Immunohistochemistry

\$10.00
per Sample

Bioinformatics

\$50.00
per Hour

Featured RNA microarray Providers

Science Exchange has 63 verified RNA microarray providers including the following featured providers.



Virginia Bioinformatics Institute

Virginia Polytechnic Institute and State University | Blacksburg, VA, United States

The Core Laboratory Facility (CLF) at VBI functions as a multi-user resource dedicated to the development and application of various high-throughput technologies to aid in the discovery of biological macromolecules.

\$284.00 USD per Sample

[REQUEST ESTIMATE](#)



<https://www.scienceexchange.com>



[View all providers for this experiment →](#)



[Request estimates from all providers →](#)

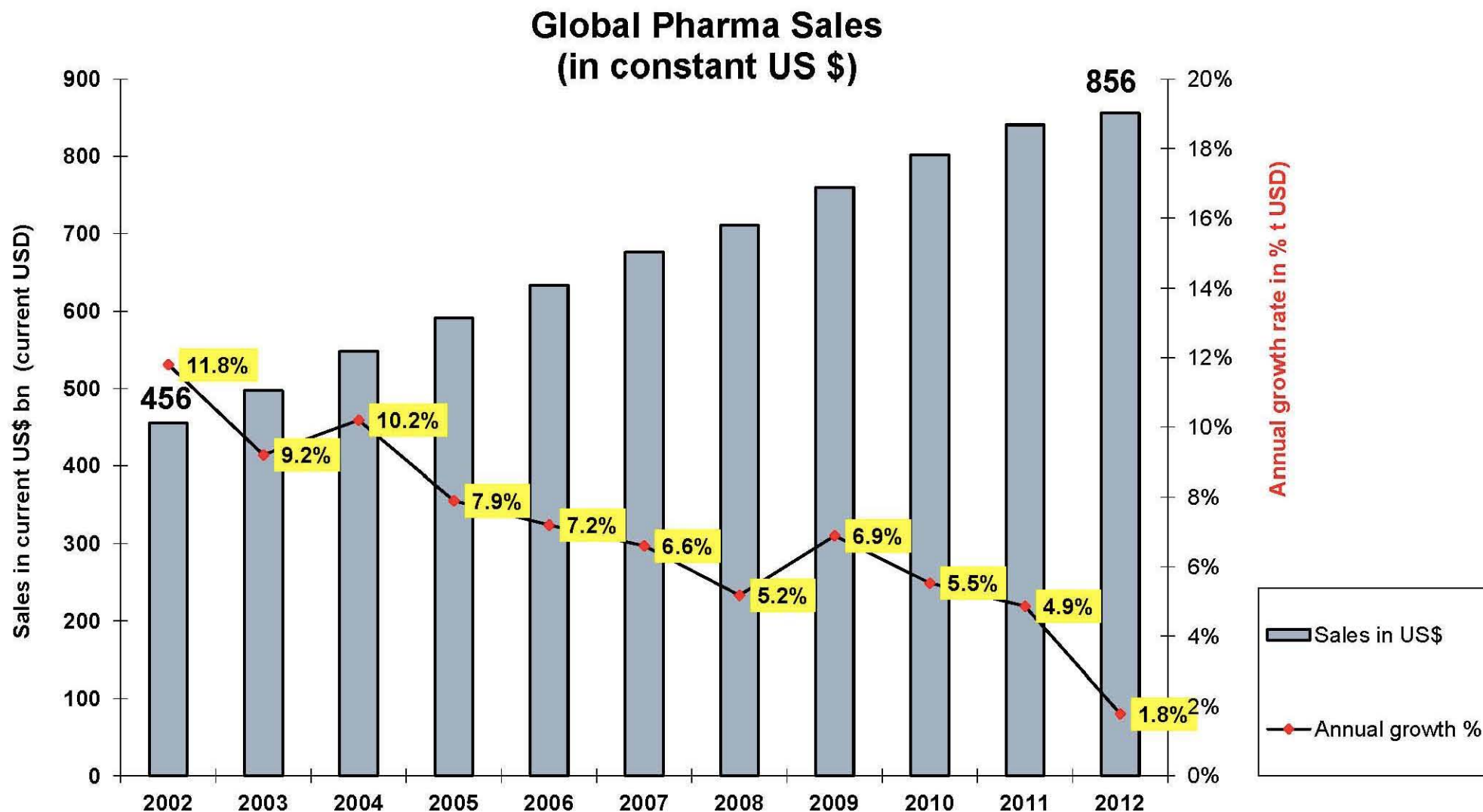


2.

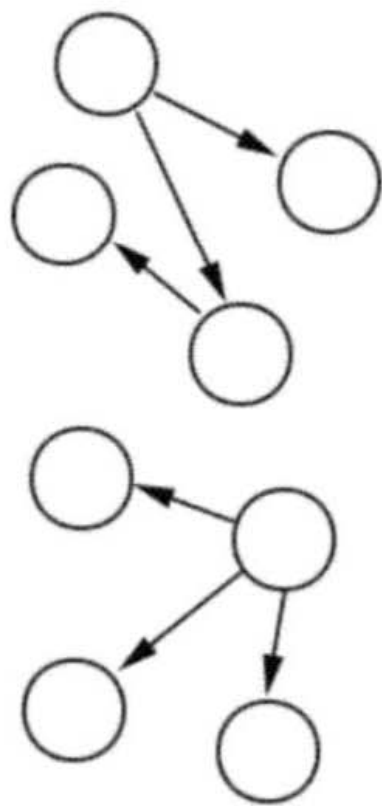
increasing tensions.

Global Sales in 2012: US\$ 856 billion (in constant USD)

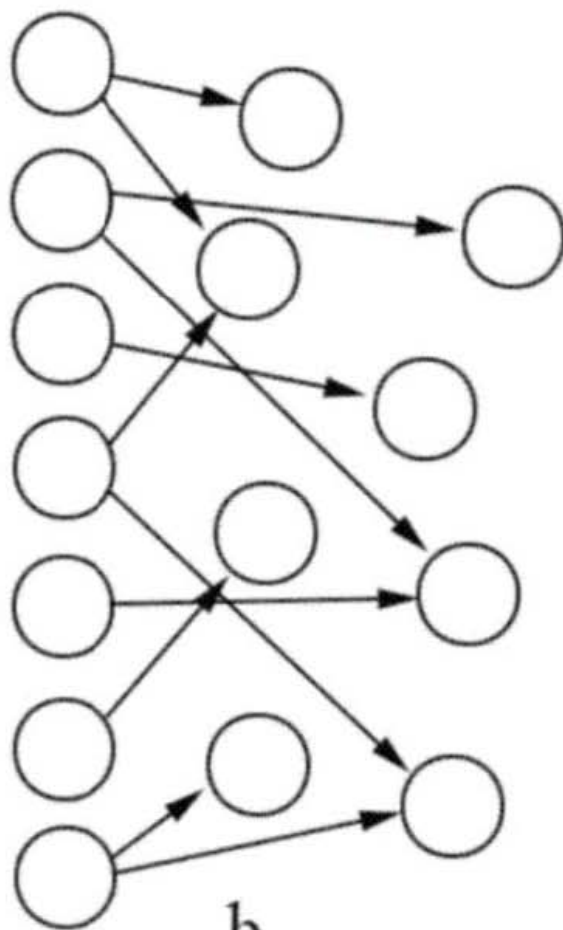
Growth is slowing



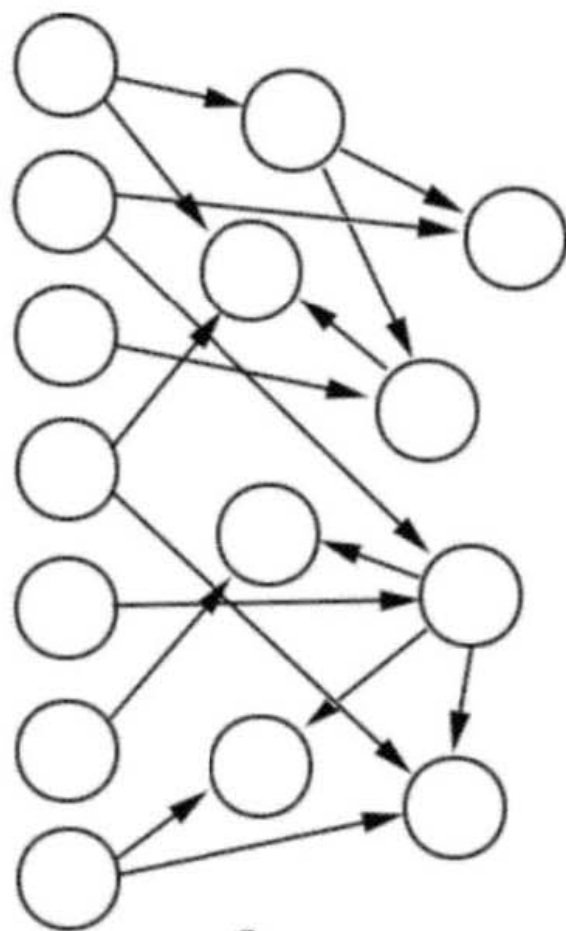
not just economic, but
social tensions.



a.

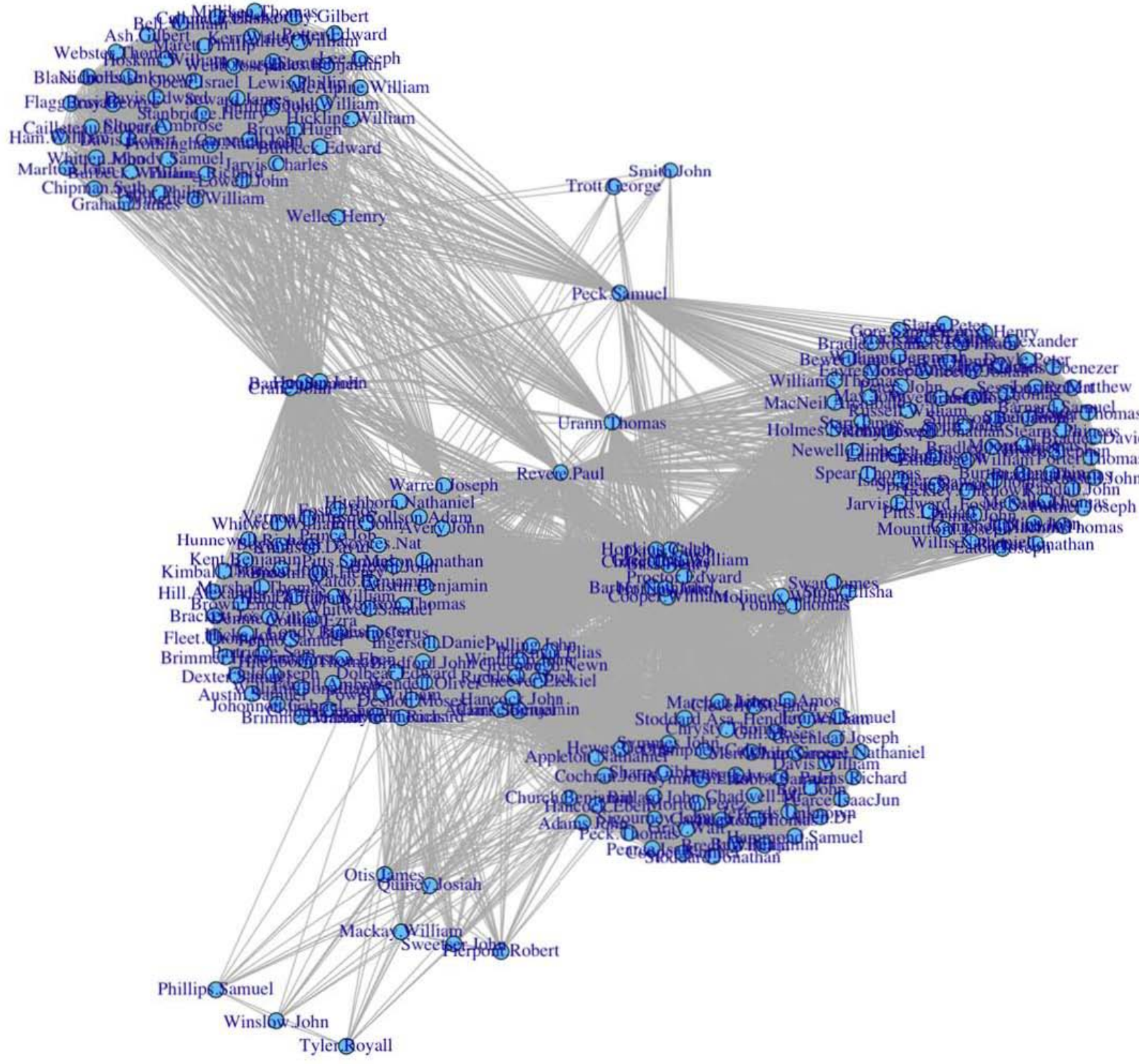


b.



c.

tension between anonymity
and utility.



tension between
expectation and reuse.

[Online First >](#)

Full Content is available to subscribers

[Subscribe/Learn More](#)

Original Investigation | August 19, 2013

Public Preferences About Secondary Uses of Electronic Health Information **ONLINE FIRST**

David Grande, MD, MPA^{1,2}; Nandita Mitra, PhD³; Anand Shah, MD, MSHP⁴; Fei Wan, MS³; David A. Asch, MD, MBA^{1,2,5}

[\[+\] Author Affiliations](#)

JAMA Intern Med. Published online August 19, 2013. doi:10.1001/jamainternmed.2013.9166 Text Size: **A** A A

Article

Figures

Tables

References

Comments

tension between aggregate
value and individual value.

How Much Are You Worth?

When you visit certain Web sites on the Internet, ad requests are sent to advertisers. They compete for a chance to serve ads to you. The bid prices they submitted to auctions are generally based on your information that advertisers possess, for example a profile inferred from your Web history, and your browsing context. The prices reflect how they evaluate your profile. We capture these prices to give you a quantification of your value from advertisers' perspective.

Results: We do not have any data associated with you. If you use Firefox or Chrome, please install the plugin and enable cookies. Note that our plugin does NOT work with Ad blocker extensions such as AdblockPlus or any addons of these types. If you use Ad blockers, and still want to know how advertisers estimate your private data, you have three options:

- Deactivate Ab blockers, browse the Internet as usual, and reactivate your Ad blockers whenever enough prices are collected (i.e. our plugin starts showing you your average price and the number of prices is larger than 20-40). This could take a couple of days or just one day, depending on your browsing habits.
- Deactivate your Ad blockers, click on some (10 to 15, with e.g. several refreshes) of the links [example from this list](#), and reactivate your Ad blockers later once you are done. This option is faster, but might somehow affect the results.
- For Firefox create a [new Firefox profile](#) and browse the Web as usual with our plugin installed. Of course do not use Ad Blockers. For Chrome, create a new browser user profile: [see here](#) or alternatively check [this tutorial](#).

We show below some general highlights, if you do not use Firefox or Chrome, or do not wish to install the plugin.

The average price paid for user's private data (items in Web browsing history) for our users is:



\$0.000564

if it can be sold, it will be
sold at the lowest
possible price.

tension between technology
rate of change and policy
rate of change.



our regulatory environment



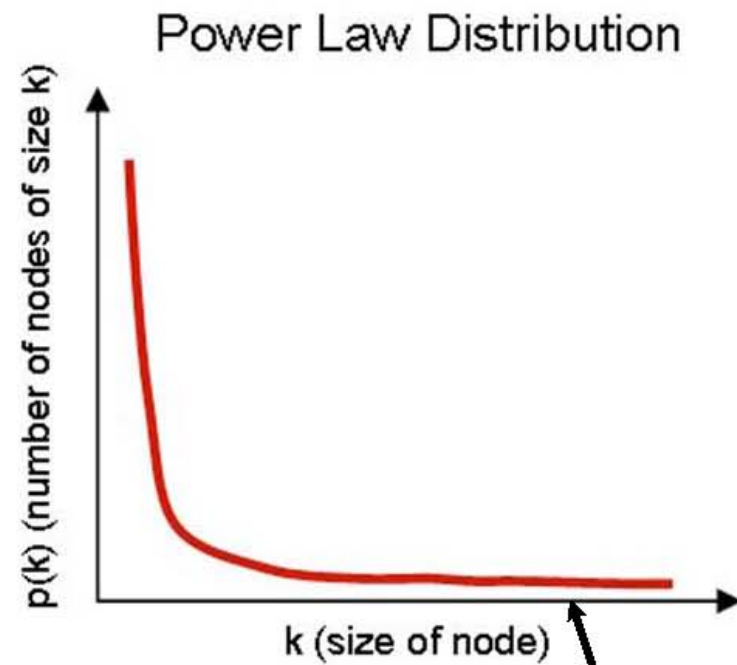
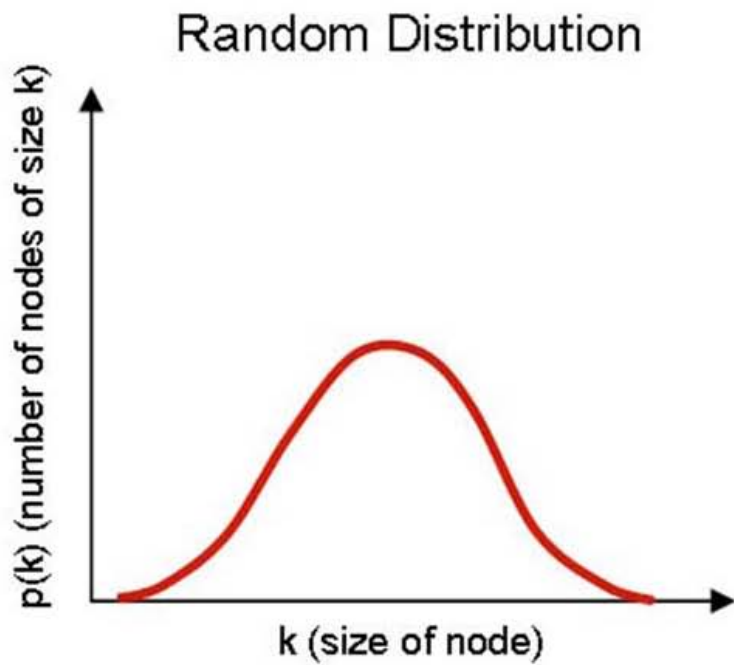
23andMe

that's the setup.

3.

we need freedoms, not just
free stuff, for data to change
health for the better.

freedoms granted to
small but coherent
groups can create
asymmetrically valuable
resources.



small group
sharing

proven to work in:
software
content

[ABOUT US](#)[NEWS](#)[PLATFORMS AND SERVICES](#)[RESEARCH](#)[WORKING WITH US](#)

Redefining. Challenging. Predicting.

Cloud Computing, the EU, and Data Governance: A Sage Bionetworks White Paper

There is a lot of movement in regulatory regimes around the world to address issues of individual level data. Whether it's from social networks, mobile networks, web traffic, or health data, gov... [Read more](#)

Philosophy

Ph

About us

Us

Platforms and Services

Ps

Research

Re

DREAM

Learn how DREAM challenges are redefining computational discovery.

Congress 2013

See details for our annual flagship event, April 19-20 2013.

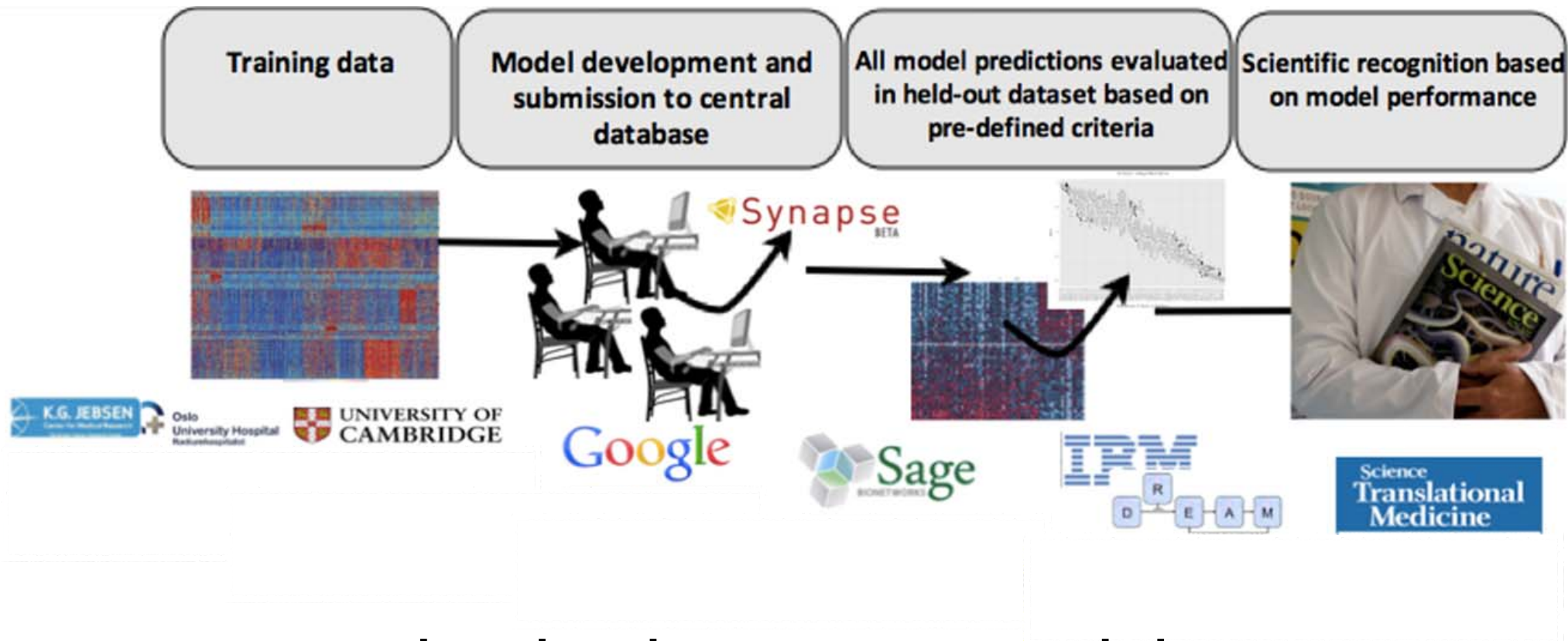
Synapse

Learn more about Synapse, our collaborative computational platform.

Team Videos

Watch our staff and hear in their own words about Sage Bionetworks.

let's try a small but
coherent group to share
data and see if it works in
breast cancer.



code sharing a prerequisite.

accuracy of model jumped three
orders of magnitude in nine days.

Search the Journal

Vol#

Pg# [GO](#) ►

Enter Keyword

Full text

[GO](#) ►

[Advanced](#) >

Contributing to Sci TM

► [Submit a Manuscript](#)

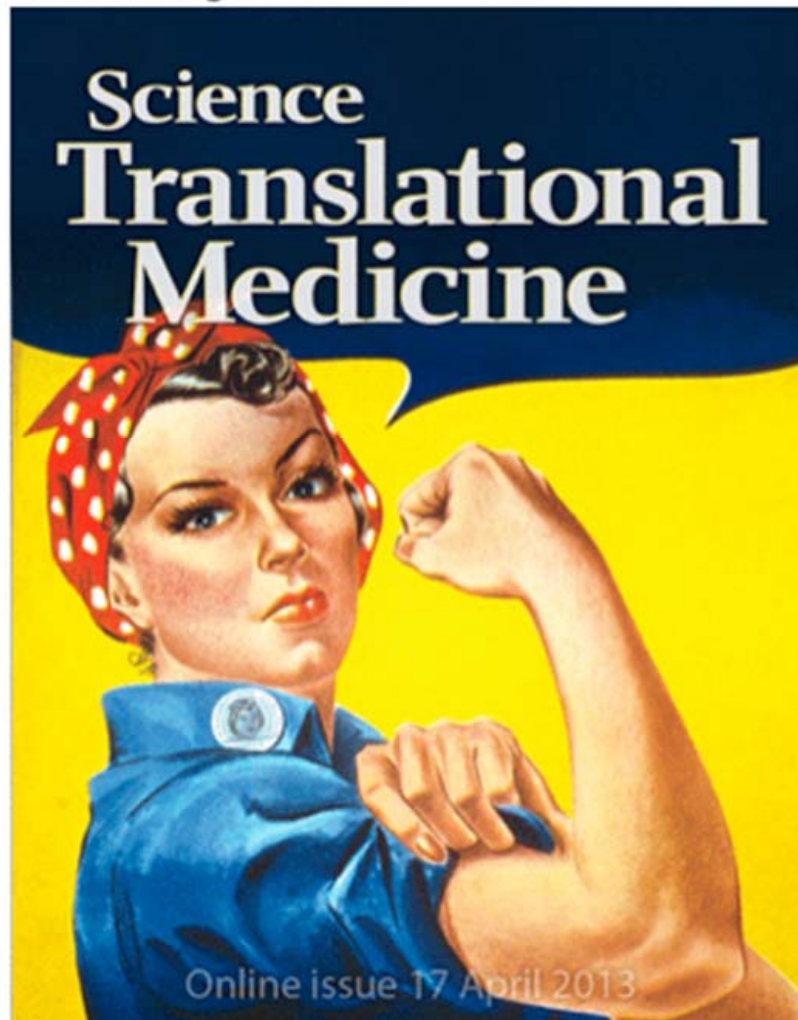
About Sci TM

- [Mission](#)
- [Advisory Board](#)
- [Associate Advisors](#)
- [Staff](#)
- [Editorial Policies](#)
- [Contact Us](#)

Information for

► [Authors](#)

Cover image



76% accurate.

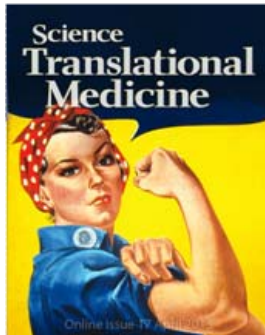
ONLINE COVER "Doin' It for Themselves"—and Future Generations. A U.S. cultural icon, Rosie the Riveter represents millions of American women who entered the workforce during World War II. Rosies worked in factories of all kinds, including some that manufactured munitions and other supplies needed



21 february 2013

Biomolecular Events in Cancer Revealed by Attractor Metagenes

Wei-Yi Cheng, Tai-Hsien Ou Yang, Dimitris Anastassiou 



RESEARCH ARTICLE

COMPUTATIONAL MODELING

Development of a Prognostic Model for Breast Cancer Survival in an Open Challenge Environment

Wei-Yi Cheng, Tai-Hsien Ou Yang and Dimitris Anastassiou*

17 april 2013

Multi-cancer molecular signatures and their interrelationships

Wei-Yi Cheng¹, Tai-Hsien Ou Yang¹, Hui Shen², Peter W. Laird², Dimitris Anastassiou¹ and the Cancer Genome Atlas Research Network

ongoing...

Multi-cancer molecular signatures and their interrelationships

Wei-Yi Cheng¹, Tai-Hsien Ou Yang¹, Hui Shen², Peter W. Laird², Dimitris Anastassiou¹ and the Cancer Genome Atlas Research Network

Multi-cancer molecular signatures and their interrelationships -- clearScience supplement (Current Page)

Figures

Figure 1: Scatter plots of top three genes in each attractor in twelve cancer types

Figure 2: Scatter plots connecting the LYM, M+ and M- signatures in 12 cancer types

Figure S1: Scatter plots of the top three features of the 15 pan-cancer attractors

Figure S2: Association between the MES and END signatures

Tables

Table S1: Attractor clusters in pancan12 data sets

Table S2: The consensus rankings of features in each attractor

Table S3: Genomically-localized mRNA attractor clusters in pancan12 data sets

"Multi-cancer molecular signatures and their interrelationships"

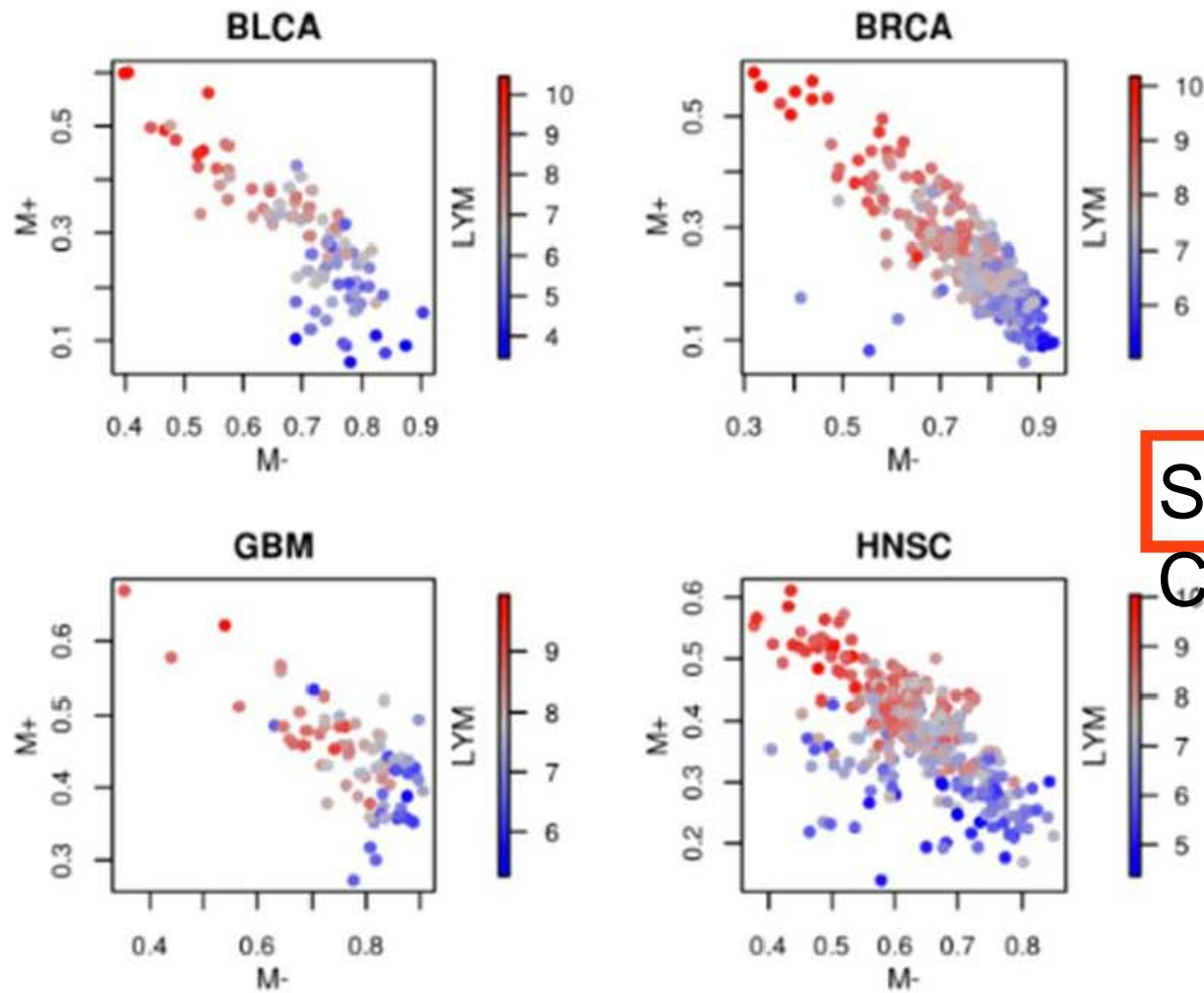
AUTHORS: Wei-Yi Cheng, Tai-Hsien Ou Yang, Dimitris Anastassiou

ABSTRACT

Several molecular signatures, called attractor metagenes, present in multiple cancer types were recently identified and proved prognostic for survival. These signatures were found using an iterative data mining algorithm converging to the core of gene coexpression. We report the identification of additional multi-cancer molecular signatures resulting from analysis of data sets from twelve cancer types, including methylation and protein signatures and an angiogenesis-related signature.



We had previously found all three LYM, M+ and M- signatures from their association with the expression of *miR-142*. We have now confirmed this in the **pancan12 data sets**, and we found that *miR-150* and *miR-155* are also strongly associated with the LYM signature. We had also previously found the LYM signature as an attractor metagene³, and used it in the winning model of the Sage Bionetworks Breast Cancer Prognosis Challenge. The LYM signature is strongly associated with improved prognosis in ER-negative breast cancers, and this fact also provides an explanation for the relationship between LYM and methylation compared with other types of high-grade breast cancers.



SHOW ME THE
CODE!

Figure 2: Scatter plots connecting the LYM, M+ and M- meta-features in 12 cancer types. Each dot represents a cancer sample. The horizontal axis represents the methylation values of the two methylation signatures, M- and M+, while the value of the expression of the LYM metagene is color-coded.



tree: 314a0881e6

synapseTCGAPancan / sourceScripts / createFigure2.R



weiyi_gisl 4 months ago figure 2

0 contributors

...



file | 55 lines (44 sloc) | 1.527 kb

Edit

Raw

Blame

```
1 createFigure2 <- function(meta.pancan, x, y, z){
2
3     fileName <- paste("scatter.", x, "x", y, "x", z, ".png", sep="")
4
5     png(fileName, width=7.3, height=8, units="in", res=300, pointsize=12)
6     par(mar = c(4,4,2,5),          #plot margin
7         mfrow = c(4, 3),
8         oma=c(0, 0, 0, 0),
9         mgp=c(2, 1, 0)
10    )
11
12    # find the features
13    temp <- meta.pancan[[1]]
14    idxx <- NULL
15    idxy <- NULL
16    idxz <- NULL
17    for(d in names(temp)){
18        if(x %in% rownames(temp[[d]])) idxx <- d
19        if(y %in% rownames(temp[[d]])) idxy <- d
```


let's try a small but
coherent group to share
data and see if it works in
“big science”.

Home

TCGA Data Portal Overview

We provide 3 ways to download data: The Cancer Genome Atlas (TCGA) Data Portal provides a platform for researchers to search, download, and analyze data sets generated by TCGA. It contains clinical information, genomic characterization data, and high-throughput sequencing analysis of the tumor genomes.

The TCGA Data Portal does not host lower levels of sequence data. NCI's [Cancer Genomics Hub \(CGHub\)](#) is the new secure repository for storing, cataloging, and accessing BAM files and metadata for sequencing data. New users must still apply for authorized access through NCBI's [Database of Genotypes and Phenotypes \(dbGaP\)](#).

[Download Data](#) ▶

Choose from three ways to
download data

Available Cancer Types	# Cases Shipped by BCR	# Cases with Data *	Date Last Updated (mm/dd/yy)
Acute Myeloid Leukemia [LAML]	200	200	07/16/13
Adrenocortical carcinoma [ACC]	80	80	07/22/13

Announcements

06/13/2013 - DCC Software Released

The software release scheduled for today is complete and the TCGA Data Portal has been returned to normal operation. As part of this release, a new version of the TCGA Archive Validator has been provided and we strongly suggest that data submitting centers download and use this new version. The TCGA Archive Validator can be found on the TCGA Wiki [here](#).

A complete list of the items addressed in this release can be found on the TCGA Wiki [here](#) and for those with JIRA access the tickets covered in this release can be found on the wiki [here](#).

If you have any questions or concerns about this release, contact tcga-dcc-binf-l@list.nih.gov.

05/21/2013 - DCC Software Released



TCGA Pan-Cancer Consortium

Analysis of: 12 Tumor types, 6 molecular profiling platforms

Focus series of: 4 papers in *Nature Genetics*, with 14 more to follow in other NPG journals

Enabling transparent and collaborative computational analysis of 12 tumor types within The Cancer Genome Atlas

Larsson Omberg^{1,6}, Kyle Ellrott^{2,6}, Yuan Yuan^{3,4}, Cyriac Kandoth⁵, Chris Wong², Stephen H Friend¹, Josh Stuart², Han Liang^{3,4} & Adam A Margolin¹

The Cancer Genome Atlas Pan-Cancer Analysis Working Group collaborated through Synapse, a software platform, to share and evolve data, results and methodologies to perform integrative analysis of molecular profiling data from 12 tumor types. The group's work serves as a pilot case study that provides (i) a template for future large collaborative studies; (ii) a system to support collaborative projects; and (iii) a public resource of highly curated data, results and automated systems for the evaluation of community-developed models.

Omberg, et al. *Nature Genetics*

68

core projects

107

0
datasets

172

3

results

1

paper in press

let's try a small but
coherent group to share
data and see if it works in
health.

 Search

disease risk

Share my health results with family and friends

My Home

Inbox (5)

My Health

Disease Risk

Carrier Status

Drug Response

Traits

Health Labs

My Ancestry

Maternal Line

Paternal Line

Relative Finder

Ancestry Painting

Global Similarity

Ancestry Labs

Sharing & Community

Compare Genes

Family Inheritance

23andMe Community

Show results for John Wilbanks ▾

[See new and recently updated reports »](#)

23andMe Discoveries were made possible by 23andMe members who took surveys.

Elevated Risk ?

Name	Confidence	Your Risk	Avg. Risk	Compared to Average
Prostate Cancer ♂	★★★★★	31.9%	17.8%	1.79x
Psoriasis	★★★★★	22.4%	11.4%	1.98x
Alzheimer's Disease	★★★★★	14.2%	7.2%	1.98x
Ankylosing Spondylitis	★★★			
Asthma	★★★			
Bipolar Disorder: Preliminary Research	★★★			
Chronic Lymphocytic Leukemia	★★★			
Follicular Lymphoma	★★★			
High Blood Pressure (Hypertension)	★★★			

Table 1. Total Prostate-Specific Antigen for White Males

Men <40 years	<2 ng/mL	<2 µg/L (SI units)
Men 40–50 years	2–2.8 ng/mL	2–2.8 µg/L
Men 51–60 years	2.9–3.8 ng/mL	2.9–3.8 µg/L
Men 61–70 years	4–5.3 ng/mL	4–5.3 µg/L
Men >70 years	5.6–7.2 ng/mL	5.6–7.2 µg/L

Reprinted with permission from Prostate-specific antigen (PSA). Available at: http://www.webmd.com/hw/mens_conditions/hw5522.asp. Accessed August 13, 2006.⁷

Oxford Journals > Medicine > JNCI J Natl Cancer Inst > Volume 94, Issue 13 > Pp. 981-990.

Overdiagnosis Due to Prostate-Specific Antigen Screening: Lessons From U.S. Prostate Cancer Incidence Trends



Ruth Etzioni, David F. Penson, Julie M. Legler, Dante di Tommaso, Rob Boer, Peter H. Gann and Eric J. Feuer

[+ Author Affiliations](#)

Correspondence to: Ruth Etzioni, Ph.D., Program in Biostatistics, Fred Hutchinson Cancer Research Center, 1100 Fairview Ave. North, MP-665, Seattle, WA 98109-1024 (e-mail: retzioni@fhcrc.org).

Received November 19, 2001.
Revision received April 25, 2002.
Accepted May 15, 2002.

Abstract

[« Previous](#) | [Next Article »](#)
[Table of Contents](#)

This Article

JNCI J Natl Cancer Inst (2002) 94
(13): 981-990.
doi: 10.1093/jnci/94.13.981

[Abstract Free](#)

[» Full Text \(HTML\)](#)

[Full Text \(PDF\)](#)

[- Classifications](#)

[Article](#)

[- Services](#)

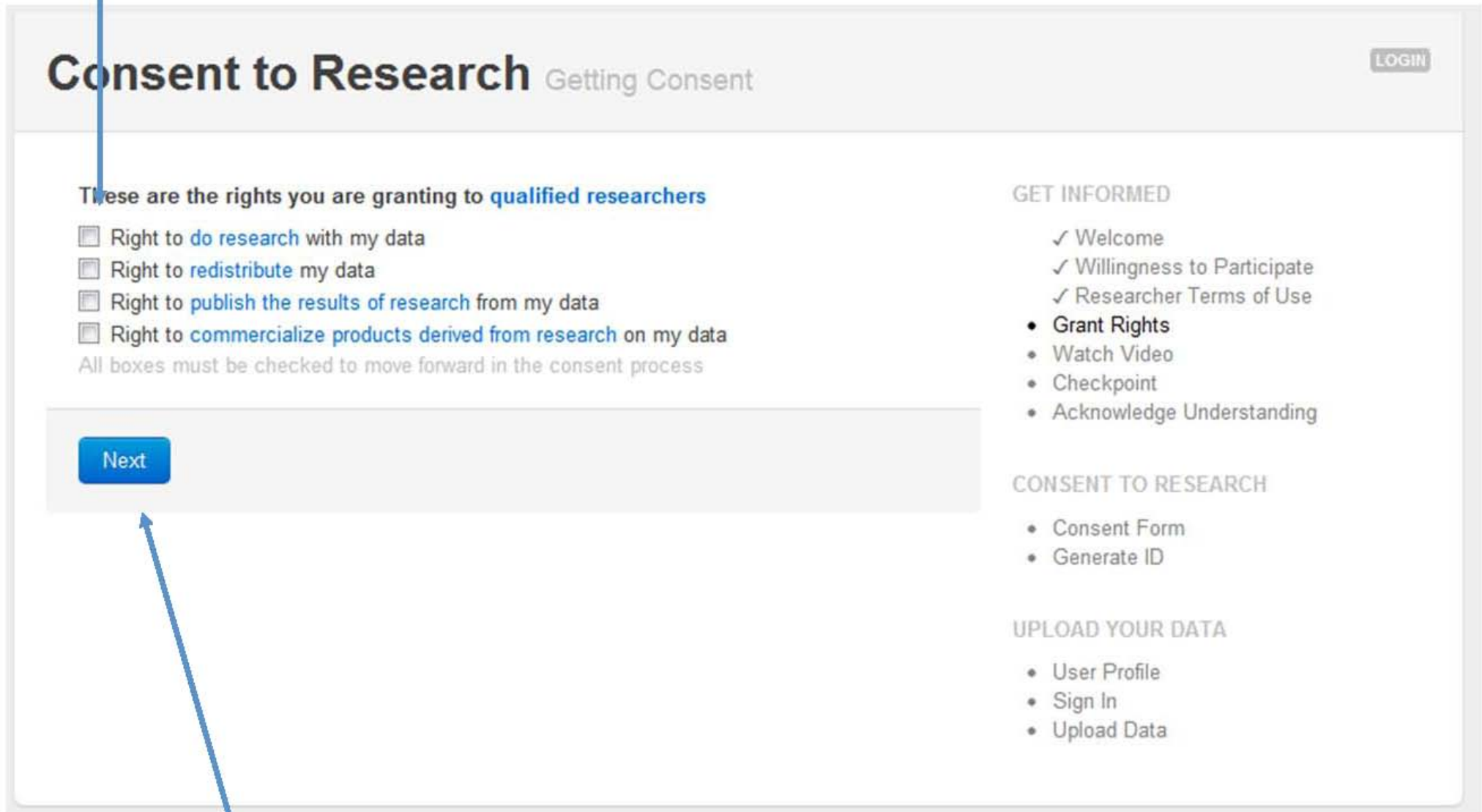
[Alert me when cited](#)

[Alert me if corrected](#)

“eat less and exercise”

the experiment:

all boxes must be checked



The screenshot shows a web form titled "Consent to Research" with a subtitle "Getting Consent" and a "LOGIN" button in the top right. The main content area is divided into two columns. The left column contains a heading "These are the rights you are granting to **qualified researchers**" followed by four unchecked checkboxes: "Right to **do research** with my data", "Right to **redistribute** my data", "Right to **publish the results of research** from my data", and "Right to **commercialize products derived from research** on my data". Below these is the text "All boxes must be checked to move forward in the consent process". At the bottom of this column is a blue "Next" button. A blue arrow points from the text "all boxes must be checked" at the top left to the checkboxes, and another blue arrow points from the text "volunteer must click to proceed" at the bottom to the "Next" button. The right column contains three sections: "GET INFORMED" with three checked items (Welcome, Willingness to Participate, Researcher Terms of Use) and one unchecked item (Grant Rights); "CONSENT TO RESEARCH" with two unchecked items (Consent Form, Generate ID); and "UPLOAD YOUR DATA" with three unchecked items (User Profile, Sign In, Upload Data).

Consent to Research Getting Consent LOGIN

These are the rights you are granting to **qualified researchers**

- ☐ Right to **do research** with my data
- ☐ Right to **redistribute** my data
- ☐ Right to **publish the results of research** from my data
- ☐ Right to **commercialize products derived from research** on my data

All boxes must be checked to move forward in the consent process

Next

GET INFORMED

- ✓ Welcome
- ✓ Willingness to Participate
- ✓ Researcher Terms of Use
- Grant Rights
- Watch Video
- Checkpoint
- Acknowledge Understanding

CONSENT TO RESEARCH

- Consent Form
- Generate ID

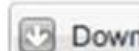
UPLOAD YOUR DATA

- User Profile
- Sign In
- Upload Data

volunteer must click to proceed



Home » Self-Contributed Data fo... » Individual 1418165 » Genotype- 23andme



Genotype- 23andme (syn1418166)

Added by: Xavier Schildwachter on: Mon Oct 01 18:59:24 GMT-700 2012

Modified by: Christine Suver on: Tue Oct 02 09:07:59 GMT-700 2012

Version: 0.0.0 [1] ([show all versions](#))

Description

Genotype from individual 1418165, generated by 23andme using the Illumina OmniExpress Plus genotyping beadchip.

This is a PLC contributed dataset (<http://weconsent.us/about>)



jtw's page



jtw has uploaded genotyping rawdata.

-  [Download this set \(23andme\)](#)

Description

This user has not entered a description yet.

jtw's variations

This user has not entered any phenotypes yet.

Contact openSNP: [Blog](#) | [Twitter](#) | [Mail](#) | [Privacy Policy](#) | [openSNP in the press](#)

The openSNP project is licensed under [CC BY SA 3.0](#). The data is licensed under [CC0 1.0](#). The hand drawn icons were created by [one seventy seven](#) and are licensed under [CC BY 3.0](#), the CSS of openSNP is provided by [Bootstrap](#), from [Twitter](#) and is licensed under the [Apache License v2.0](#). Tiny white person in the navigational-bar from [glyphicons](#).

<http://opensnp.org/users/615>

[gs144](#)

4 Magnitude
20120916 Geno time



Male Male.

[rs5186\(C;C\)](#)

7.3x increased risk of hypertension...[more...](#)

Bad Repute
4 Magnitude
0.1575 GMAF
54 References
AGTR1 Gene
3 Chromosome
148459988 Position
20120810 Rs time

[High blood pressure, Pre-eclampsia](#)

[rs6152\(A;A\)](#)

won't go bald This genotype seems to prevent baldness
...[more...](#)

Good Repute
4 Magnitude
0.214587 GMAF
11 References
AR Gene
X Chromosome
66765627 Position
20120812 Rs time

[Baldness](#)

Search...

Graph

Table

Help

Show All

Sort by Magnitude

Show: ☒ SNPs ☒ Genosets

Repute: ☒ Good ☒ Not Set ☒ Bad

Magnitude:

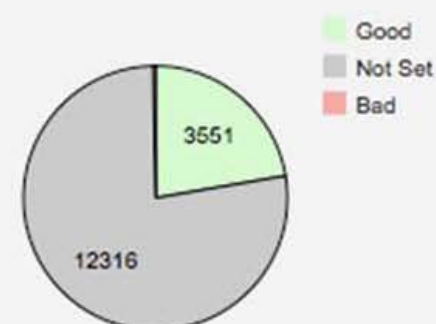
References:

UI: ☒ Tooltips ☐ Editor Mode

Allow

Visible Offscreen

Repute



'JTW'

MINOR ALLELE PROGRAM REPORT

'JTW' 'jw' '615' 23andMe Results Chromosomes 1-22 4 October 2012

The program finds about 60 'rare/uncommon' SNPs from the 900,000+ tested by 23andMe.

There is just a single 'homozygous-recessive' result:

'AA' rs11869580 Intergenic

but as this occurs in an Intergenic region it is unlikely to be of significance.

There are no SNPs of special note.

RESULTS

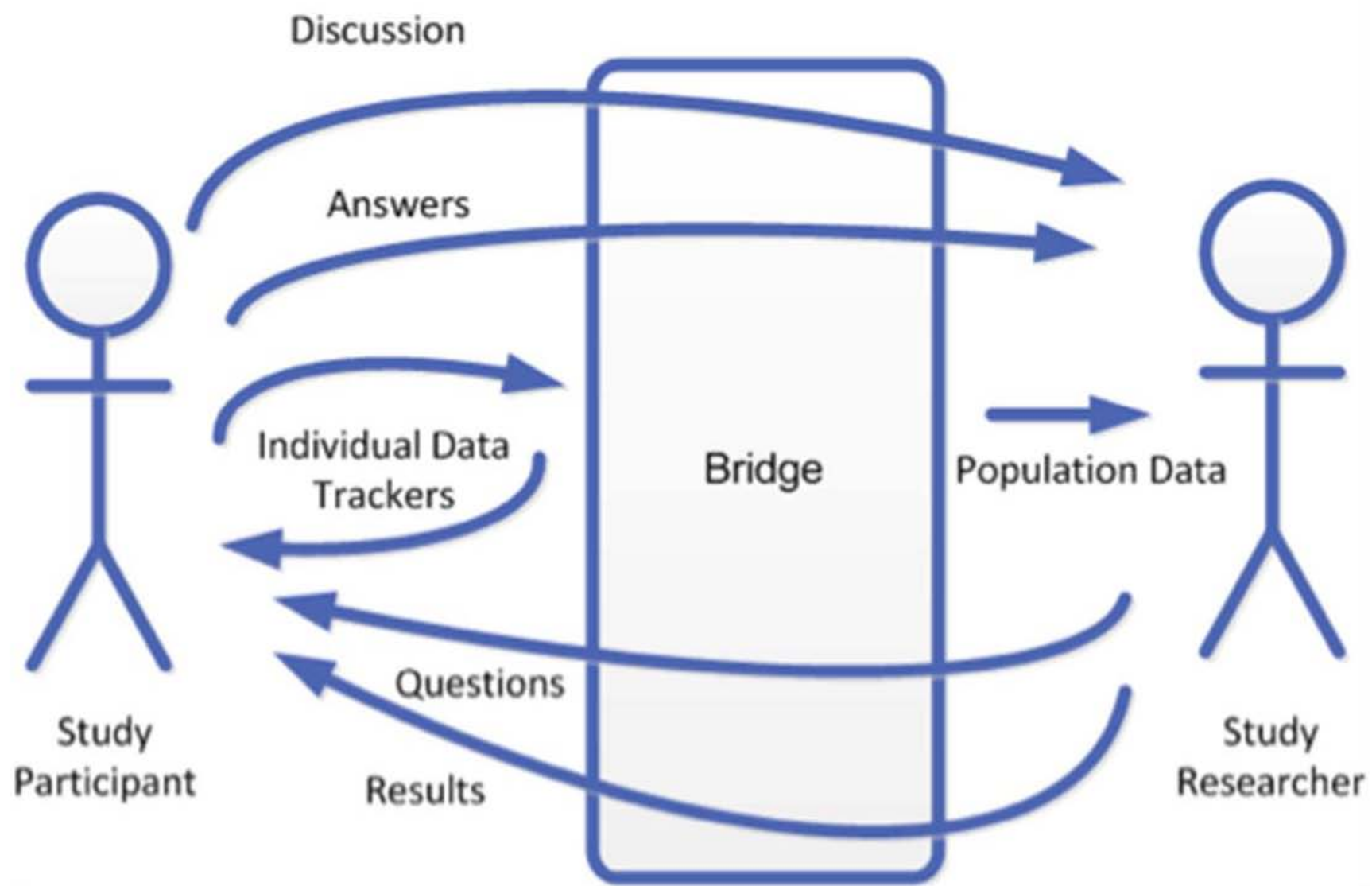
rs56367069	at Chr1a:17326767	gave 'CT'	The minor allele is 'T' with a MAF = 0.00776.
rs4949212	at Chr1a:31961711	gave 'GT'	The minor allele is 'G' with a MAF = 0.00959
rs1181088	at Chr1a:54563039	gave 'AG'	The minor allele is 'G' with a MAF = 0.00959
rs1109918	at Chr1a:67862482	gave 'AG'	The minor allele is 'G' with a MAF = 0.00822.
rs12751479	at Chr1b:98056007	gave 'GT'	The minor allele is 'T' with a MAF = 0.00228
rs35669708	at Chr1b:156851382	gave 'AG'	The minor allele is 'A' with a MAF = 0.00999
rs35698797	at Chr1c:229665958	gave 'CT'	The minor allele is 'T' with a MAF = 0.00502
rs45471294	at Chr2a:31600017	gave 'CT'	The minor allele is 'T' with a MAF = 0.00914.
rs17776702	at Chr2b:103317676	gave 'AG'	The minor allele is 'G' with a MAF = 0.00868
rs17760364	at Chr2c:189631806	gave 'AG'	The minor allele is 'G' with a MAF = 0.00959
rs279552	at Chr3a:9976159	gave 'AG'	The minor allele is 'A' with a MAF = 0.00639
rs460965	at Chr3a:10122927	gave 'CT'	The minor allele is 'T' with a MAF = 0.00594.
rs2067466	at Chr3a:11300780	gave 'CG'	The minor allele is 'C' with a MAF = 0.00319

“Also there is no suggestion of consanguinity in your pedigree.”

<http://www.ianlogan.co.uk/>

(not so good)

requires coherence and
scale - easier to enforce in
closed systems...



4.

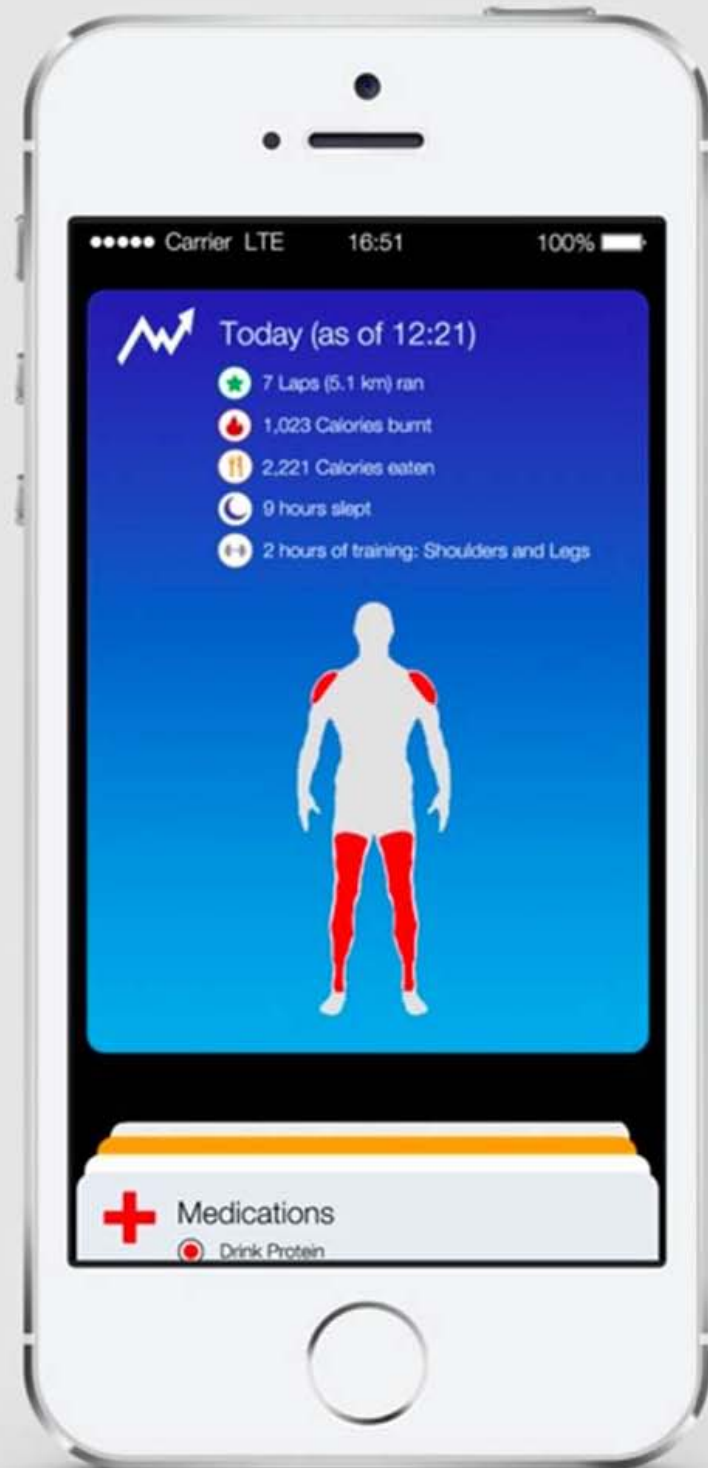
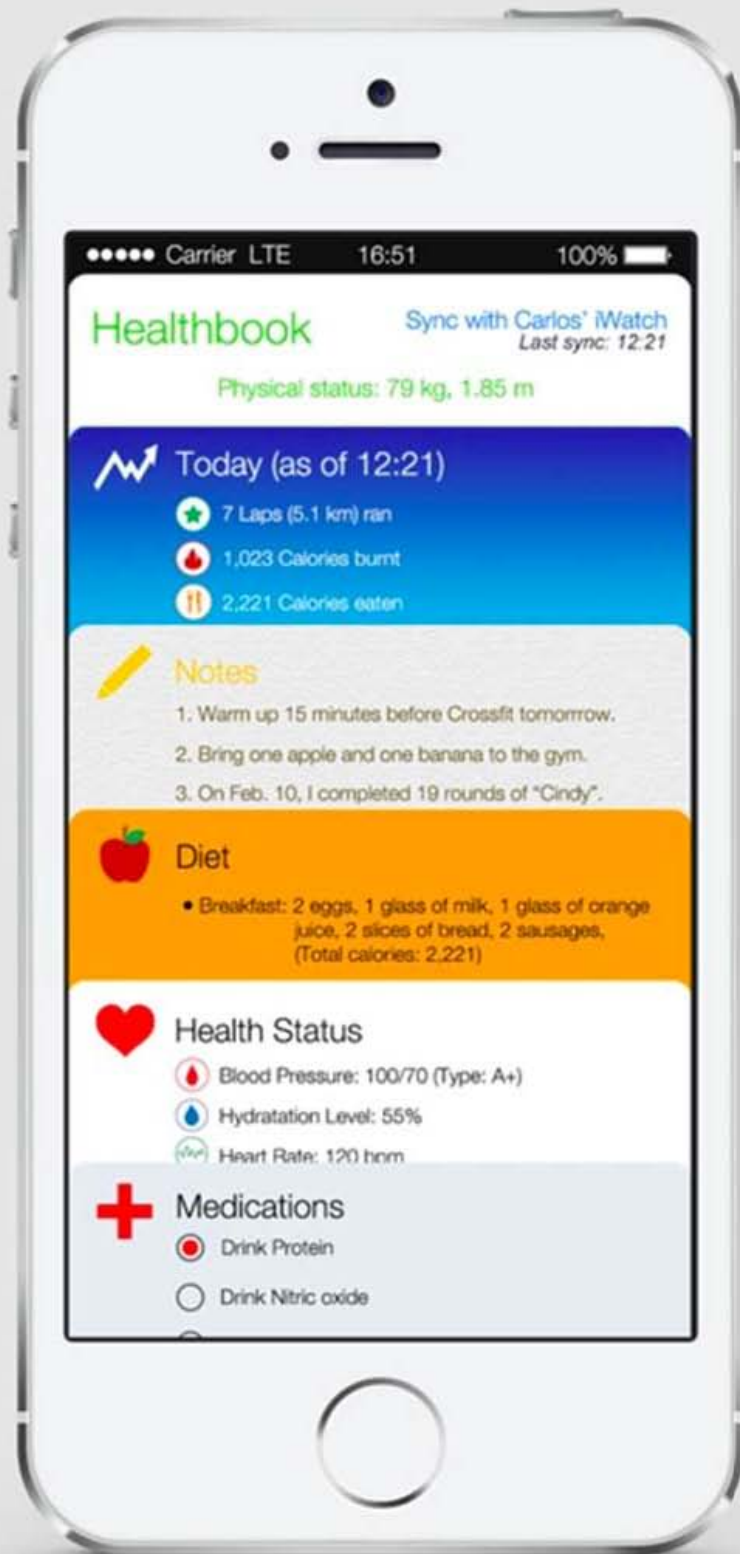
someone's going to
achieve coherence
and scale.

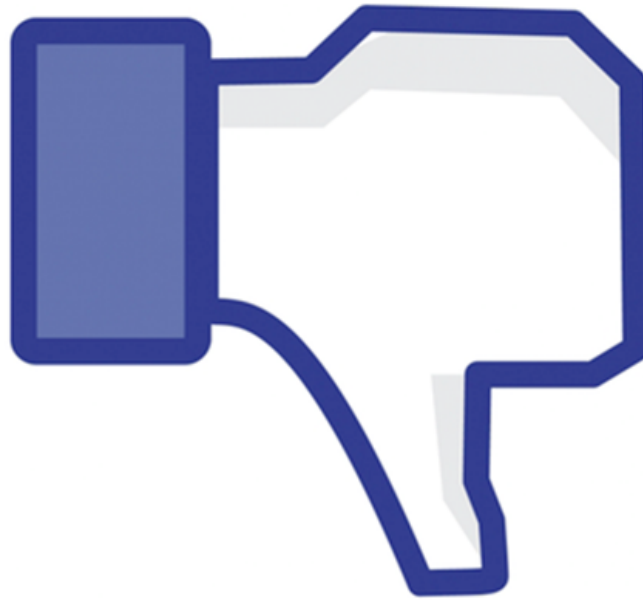
INTRODUCING UP²⁴ AND THE NEW UP 3.0 APP

Connect wirelessly with real-time insights to turn intentions into actions.



MotionX[®]
Powered





but will we be allowed
to opt out?

thus we have to talk
about the politics of
data.

three choices for
coherence and scale.

a. “just like now, but
moreso”

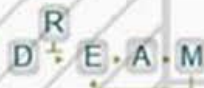




c. an open system.

Rheumatoid Arthritis Responder DREAM Challenge

Challenge Details & Registration



CORRONA



Programmatic Clients

Synapse is designed to easily integrate into your current work. That's why we've created the following clients so that you can interact with all of Synapse's functionality programmatically. Create projects, upload files, download files, generate provenance, query, create wikis and more all from the comfort of your own code. Don't see your language of choice here? Check out our full [REST API documentation](#).

R Client

```
source('http://depot.sagebase.org/CRA')
pkgInstall(c("synapseClient"))
```

[API Documentation & Example Code](#)

Python Client

```
# From Terminal Prompt:
pip install synapseclient

# or
easy_install synapseclient
```

Command Line Client

```
# From Terminal Prompt:
pip install synapseclient

# or
easy_install synapseclient
```

Java Client

[API Documentation & Example Code](#)

Accelerating Medicines Partnership

The Accelerating Medicines Partnership (AMP) is a bold new venture between the National Institutes of Health (NIH), 10 biopharmaceutical companies and several non-profit organizations to transform the current model for developing new diagnostics and treatments by jointly identifying and validating promising biological targets of disease. AMP will begin with three to five year pilot projects in three disease areas: Alzheimer's disease, type 2 diabetes, and the autoimmune disorders of rheumatoid arthritis and systemic lupus erythematosus (lupus).

For each pilot, scientists from NIH and industry have developed research plans aimed at characterizing effective molecular indicators of disease called biomarkers and distinguishing biological targets most likely to respond to new therapies. The ultimate goal is to increase the number of new diagnostics and therapies for patients and reduce the time and cost of developing them.

Through this cross-sector partnership, which will be managed through the Foundation for the NIH (FNIH), NIH and industry partners are sharing expertise and resources –\$230 million – in an integrated governance structure that enables the best informed contributions to science from all participants. A critical component of the partnership is that industry partners have agreed to make the

AMP Partners

Government

- FDA
- NIH

Industry

- AbbVie
- Biogen Idec
- Bristol-Myers Squibb
- GlaxoSmithKline
- Johnson & Johnson
- Lilly
- Merck
- Pfizer
- Sanofi
- Takeda

Non-Profit Organizations

Open Source and Standards

Open Source and Standards

[Open Source at IBM](#)[Standards at IBM](#)[Interoperability Specifications Pledge](#)[Links](#)[FAQs](#)

Related links

- Linux at IBM
- DB2 Express-C
- Lotus Expeditor
- Apache OpenOffice
- OmniFind Yahoo! Edition
- Rational Jazz
- Rational Software Delivery Platform
- WAS Feature Pack for Web 2.0
- WebSphere Application Server Community Edition
- IBM Power Architecture
- IBM BladeCenter

Open Source and Standards in the Marketplace

Technology and the Internet revolution have made the world a smaller and "flatter" place. Global innovation continues to bring people around the world closer to one another, but we're now starting to realize that just being connected isn't enough.

Fortunately, a new revolution is beginning: one that holds significant potential. The planet is becoming smarter. Intelligence is being infused into the way the world literally works—into the systems, processes and infrastructure that enable physical goods to be developed, manufactured, bought and sold; that allow services to be delivered; that facilitate the movement of everything from money and oil to water and electrons. Ultimately, this will help to improve how billions of people work and live.

Open Source & Standards are key to [making our planet smarter](#) and improving the way we live and work.

Open Source:

Open source in IT is software whose source code is published and made available to the public, enabling anyone to copy, modify and redistribute the source code without paying royalties or fees.

Standards:

A standard is a specification that has been agreed upon by a community, through usage or declaration. Once established, any number of duplicates or variants can be made, while keeping the basic structure or function intact.

IBM is driving reforms for IP, Open Source & Standards

IBM is an industry leader helping governments move toward greater openness and innovation.

Project Data Sphere Overview

[Sign in or
Apply for Access](#)

PROJECT DATA
SPHERE

Home

About Us

Access Data

Share Data

User Guide

Contact Us



Data sharing opens
a new world of possibilities
for conquering cancer

[Apply for Access](#)

Welcome to Project Data Sphere... a simple idea for transforming innovation in cancer treatment research.

Project Data Sphere enables researchers across industry and academia to share oncology clinical trial data through a single online platform. Sharing data will speed our understanding of the disease and drive efficiencies in the development of new drugs and treatment approaches. Project Data Sphere represents the collaborative effort of industry, academia, and patient advocacy organizations united in their fight against cancer. [Read More >>](#)



2013 goal: 60 data sets

LATEST CONTRIBUTIONS

MK2206 and Paclitaxel in
Treating Patients With
Locally Advanced or
Metastatic Solid Tumors or
Metastatic Breast
Cancer; nnn...

Detection of Circulating
Osteosarcoma Tumor Cells
in the Blood of Patients
Using the Polymerase Chain
Reaction test



What data sharing
means for **COMPANIES**
and **INSTITUTIONS**



Why data sharing
promotes innovation
by **RESEARCHERS**



How data
sharing honors
PATIENTS

c. the cartel.

facebook

☐ Remember Me

Forgo

Email

Facebook helps you connect and share with
the people in your life.



Sign Up

It's free and anyone can

Full Name:

Your Email:

New Password:

I am:

Select Sex:

Birthday:

Month:

Da

Why do I need to pro

Sign Up

To create a page for a celebrity, b

thank you

@wilbanks

john.wilbanks@sagebase.org