- 1.

- IPRs and licensing.

"intellectual property" =

"intellectual property" =

a gaggle of rights…
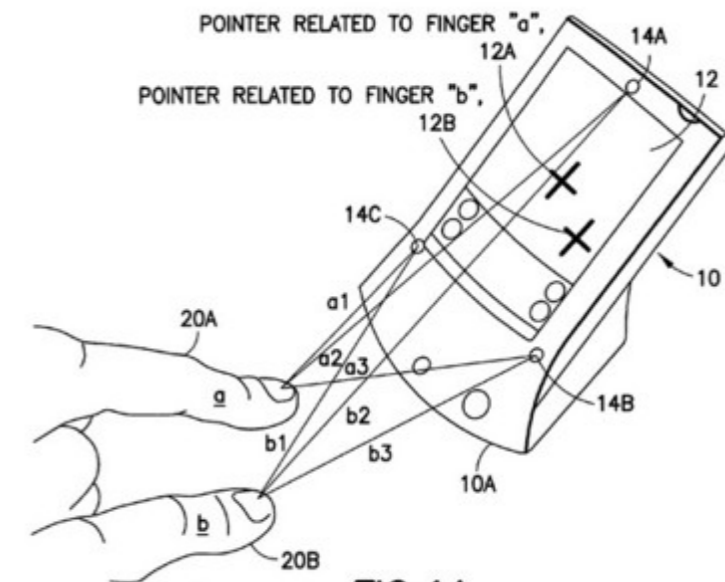
"intellectual property"

"intellectual property"

"intellectual property"

POINTER RELATED TO FINGER "a", 14A
12A
POINTER RELATED TO FINGER "b", 12
12B
14C
a1
20A
a2 a3
a
b2 14B
b1
b3
10A
b
20B FIG.1A

"intellectual property"

POINTER RELATED TO FINGER "a",
12A
POINTER RELATED TO FINGER "b",
12B

14A
12

14C

a1
20A
a2 a3
a
b2
b1
b3
b
20B

10

14B

10A

FIG.1A

not:

not:

not:
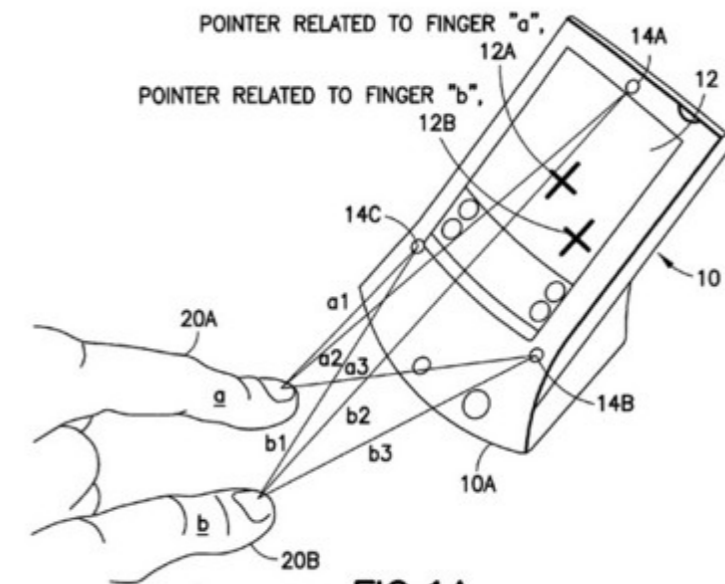
1 x ___ = 7
3 x ___ = 12
9 x ___ = 72
7 x ___ = 49
5 x ___ = 30

no (c) on data, generally speaking.

(not a "creative expression")

global NGO / non profit organization

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○ No ⓘ

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○ Yes, as long as others share alike ⓘ

○ No ⓘ

Jurisdiction of your license ⓘ

[International   ▼]

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Number of Creative Commons-licensed works

2006

2010

2014

50 MILLION

400 MILLION

882 MILLION
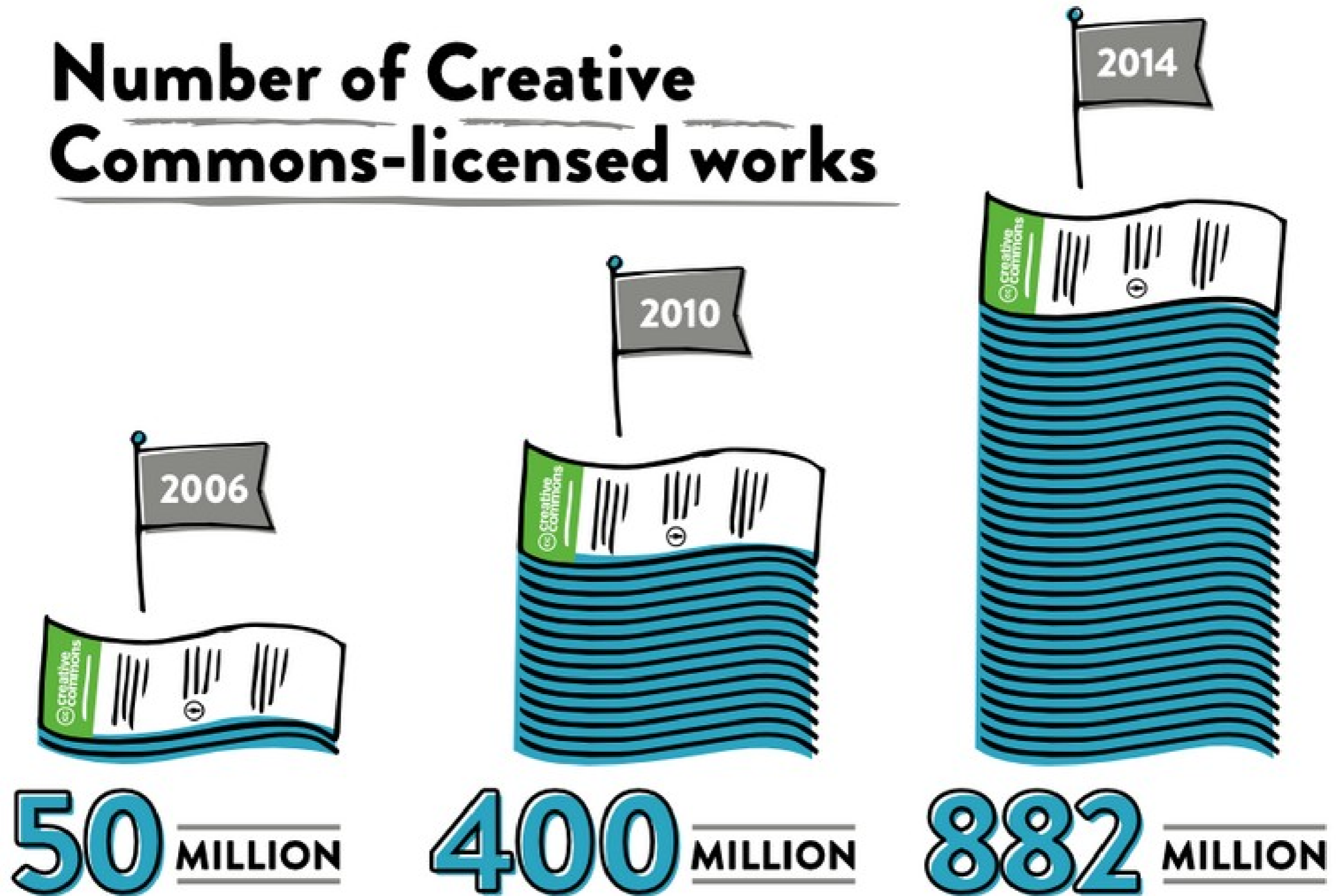
- 2.

- PCORI and open licenses

- "open access" to research literature

OPEN ACCESS

By "open access" to this literature, we mean its <u>free availability on the public internet</u>, permitting any users to read, download, copy, distribute, print, search, or link to the full texts of these articles, crawl them for indexing, pass them as data to software, or use them for any other lawful purpose, without financial, legal, or technical barriers other than those inseparable from gaining access to the internet itself.

When and How to Comply

1 Preparing a manuscript

Address copyright

show me

2 Accepted for publication

Post it to PubMed Central and track it in My NCBI

show me

3 Reporting to NIH

Include PMCID in citations

show me

Overview:

To advance science and improve human health, NIH makes the peer-reviewed articles it funds publicly available on PubMed Central. The NIH public access policy requires scientists to submit final peer-reviewed journal manuscripts that arise from NIH funds to PubMed Central immediately upon acceptance for publication. [more]

Show me specific instructions for my publication

▶ Public Access Policy
Video Training

1 NIHMS overview

2 My NCBI overview

3 My Bibliography overview

4 Public Access Compliance

Last Updated: Tuesday

This petition has been responded to by the White House. See the response below.

WE PETITION THE OBAMA ADMINISTRATION TO:

Require free access over the Internet to scientific journal articles arising from taxpayer-funded research.

We believe in the power of the Internet to foster innovation, research, and education. Requiring the published results of taxpayer-funded research to be posted on the Internet in human and machine readable form would provide access to patients and caregivers, students and their teachers, researchers, entrepreneurs, and other taxpayers who paid for the research. Expanding access would speed the research process and increase the return on our investment in scientific research.

The highly successful Public Access Policy of the National Institutes of Health proves that this can be done without disrupting the research process, and we urge President Obama to act now to implement open access policies for all federal agencies that fund scientific research.

Created: May 13, 2012

February 22, 2013

MEMORANDUM FOR THE HEADS OF EXECUTIVE DEPARTMENTS AND AGENCIES

FROM: John P. Holdren
           Director

SUBJECT: Increasing Access to the Results of Federally Funded Scientific Research

1.   Policy Principles

The Administration is committed to ensuring that, to the greatest extent and with the fewest constraints possible and consistent with law and the objectives set out below, the direct results of federally funded scientific research are made available to and useful for the public, industry, and the scientific community. Such results include peer-reviewed publications and digital data.

Scientific research supported by the Federal Government catalyzes innovative breakthroughs that drive our economy. The results of that research become the grist for new insights and are assets for progress in areas such as health, energy, the environment, agriculture, and national security.

Access to digital data sets resulting from federally funded research allows companies to focus resources and efforts on understanding and exploiting discoveries. For example, open weather data underpins the forecasting industry, and making genome sequences publicly available has

- "open access" to secondary assets

Share the Journey
Mind, Body and Wellness after Breast Cancer

Download the app

BECOME A RESEARCH PARTNER.
You can help make a difference.

Download the app

About this Study

Become a research Partner: How can we better manage the symptoms of Breast Cancer treatment together? Sage Bionetworks is proposing a new approach to monitor health in Women treated for Breast Cancer using mobile apps. We want to understand why some Breast Cancer Survivors recover faster than others, why their symptoms vary over time and what can be done to make the symptoms improve. **Learn more.**

How this Study Works

The "Share the Journey" app will use surveys and phone sensor data to collect and track five common symptoms of breast cancer treatment: fatigue, cognitive difficulties, sleep disturbances, mood changes and reduction in exercise performance. Some participants will also be invited to keep a health diary. **Learn more.**

Download the app
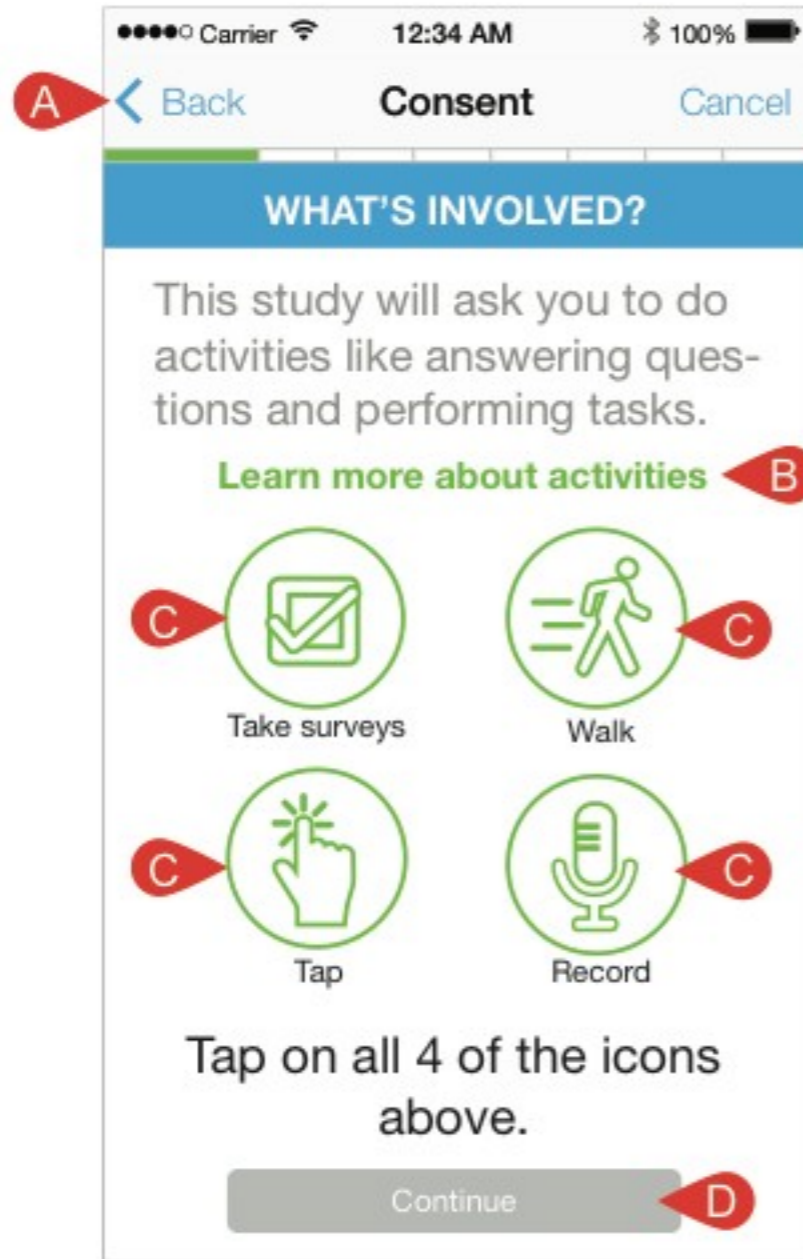
About this study
rest state

About this study
hover state

About this study
selected state

LINKS

Learn more.
rest state
#EF4360

Learn more.
hover state
#8250A0

Learn more.
press state
#6D6E70

Learn more.
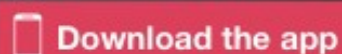visited state
#F38286

COLORS

#EF4360

#231F20 (text)

#A7A9AB (box outlines)

What's involved: Activities

This study will ask you to perform tasks and to respond to surveys.

Learn More
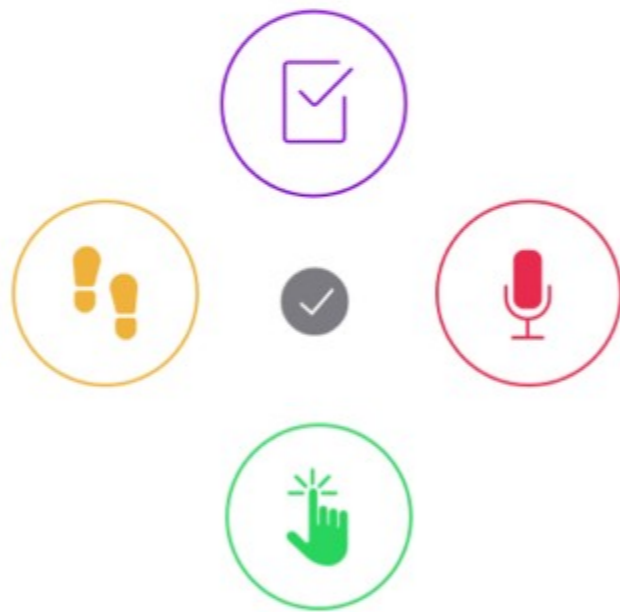
Continue   >

Download a mobile app (free) and register an account: You need to have the study app on your phone, register an account and confirm your agreement to participate in this study. Registration will include entering your name, email address and other general information about yourself to verify your eligibility.

Health Surveys: We will ask you to answer questions about yourself, your medical history, and your current health. You may choose to leave any questions that you do not wish to answer blank.

Tasks: We will ask you to perform specific tasks while holding or using your mobile phone and record sensor data directly from your phone. Examples are:

o to record variations in your voice by saying "aaah" for 10-20 seconds into the microphone of your phone.

o to hold your phone, walk few steps forward then few steps backward to assess your posture and stability.

o to tap on the phone screen in a specific way to test your reaction time and dexterity.

o Additionally, you may be asked for your permission to include some data from third-party fitness devices (like the Fitbit or Jawbone

Web

1 Welcome Page

click on log in

click on join

Web

2 Join page

Mobile web version of Welcome Page in UIWebView

click on app link

get more info

Corresponding app store

download and open app

3 Sign up page **App**

user signs up

4 Verify email page **App**

Web

5 Verification confirmation page

user taps link in email

user opens email

user closes app

user closes email

user reopens app

resend email

user logs in

doesn't give consent

gives consent

open walk-through

6 App Signed in page **App**

7 App Consent walkthrough **App**

8 App Dashboard/ Home page **App**

1 Welcome Page
Purpose:
- Marketing
- Information about the study (why do it, who are the researchers, etc)
Main Action
- Join the Study
Other actions
- Log in (not available on mobile web?)
- Navigation to study information (not available on mobile web?)

2 Join page
Purpose:
- Convey requirements through bulleted list
Main Action:
- Download mobile app (links to app for each platform for desktop site, detect user's OS and just display link to corresponding app on mobile web?)

3 Sign up page
Purpose:
- User to set up credentials
Main Action
- User to enter email and password
Other Actions
- Get more information
- login link for users that already have accounts

4 Verify email page
Purpose:
- Tells user they need to close the app, go to their email, and click on the link to verify their email
Main Action
- None
Other actions
- link to resend verification email

5 Verification confirmation page
Purpose:
- Lets the user know their email was verified
- Directs them to reopen the app
Main Action
- None
Can we directly open the app from a link in email and take them to a confirmation page inside the app, bypassing this page?

6 Signed in page
Purpose:
- confirms the user's email was verified (or not)
- explains the consent walkthrough
Main Action
- User opens consent walkthrough
Other Actions
- link to resend verification email
Does the user have to enter credentials again? Or can the app do a check on the credentials entered previously to detect if the email was verified and display an appropriate message? (your email has been verified -or- your email has not yet been verified -or- return them to sign up page if no credentials detected)

7 Consent Walkthrough
Purpose:
- User understands study
Main Action
- User performs 8 steps of consent walkthrough

8 Dashboard / Home page
- Somewhere here message to the users that they can now log in on the desktop website to view their data.
- Show first time user experience (FTUE) tips about the UI. Some FTUE screens will be contextual (ie show the user how to do the tap task as they are asked to do it)

- "open access" to PRO tools

PROMIS FAQs

Have questions about PROMIS? Visit our FAQs page!

More ...

1 2 3 4 5 6   <-Prev Next->

Tweets   [Follow]

PROMIS - NIH @promisNIH   9 Oct
#PROMIS pain item banks will be expanded due to new study funded by @PCORI for PC & PRSE - bit.ly/1rFHe0K
Expand

Tweet to @promisNIH

Researchers

Provides efficient, reliable, and valid assessments of adult and child (pediatric) self-reported health

- **FAQs**
- PROMIS Instruments Selected References
- PROMIS In Research
- Industry
- PROMIS International

Clinicians

Provides data about the effect of therapy that cannot be found in traditional clinical measures

- **FAQs**
- PROMIS for Clinicians
- Select Publications
- Computer Adaptive Test (CAT) Demonstration

Patients

Measures what you are able to do and how you feel

- More on PROMIS
- What Patient Reported Outcomes (PROs) Are
- PROMIS Measures

Contact PROMIS | Policies | Accessibility | FAQs | Glossary | File Formats | Site Map | PROMIS Researcher Login | PDMC Forms Login

USA.gov

AIR® Web site designed and maintained by AIR

- (be very, very careful, especially if using app-based surveys!)

open research exchange
by patientslikeme

Welcome to the world's first open-participation research platform for creating health outcome measurements.

design

Leverage new, specialized tools to quickly design and field measures.
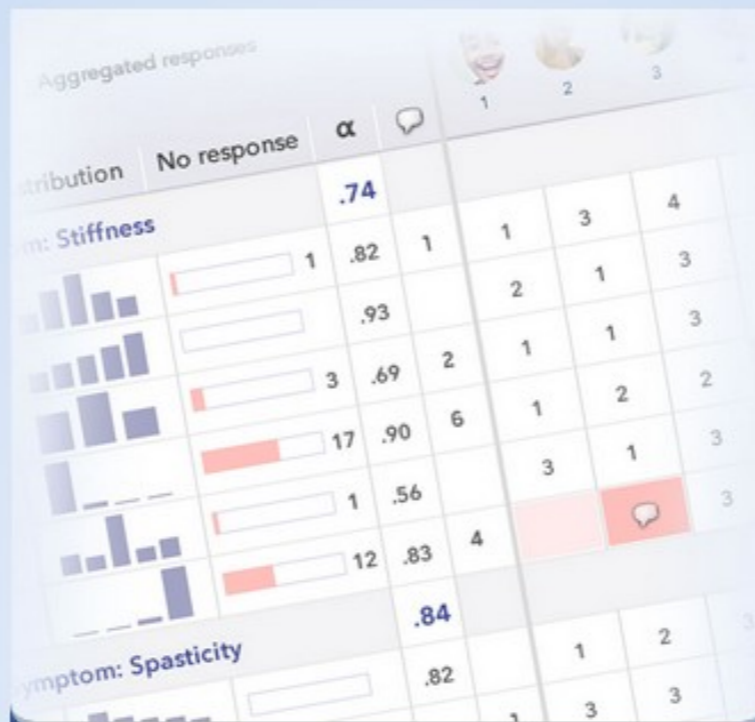
test

Access a network of real patients to rapidly test new measures and get feedback on your instrument development.
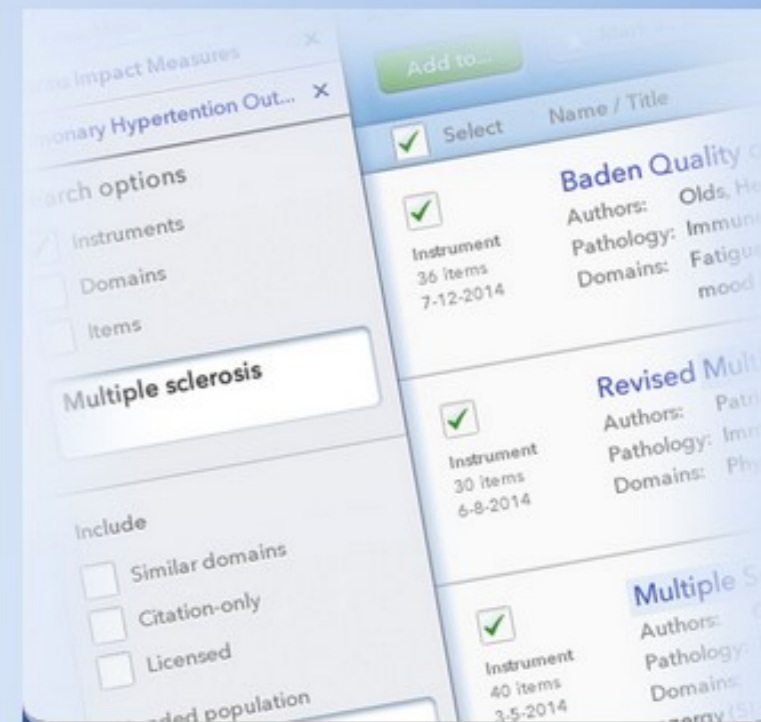
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Apply now to become a pilot researcher >

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Open source licenses are licenses that comply with the Open Source Definition — in brief, they allow software to be freely used, modified, and shared. To be approved by the Open Source Initiative (also known as the OSI), a license must go through the Open Source Initiative's license review process.

Popular Licenses

The following OSI-approved licenses are popular, widely used, or have strong communities (as defined in the 2006 Proliferation Report):

  ○ Apache License 2.0
  ○ BSD 3-Clause "New" or "Revised" license
  ○ BSD 2-Clause "Simplified" or "FreeBSD" license
  ○ GNU General Public License (GPL)
  ○ GNU Library or "Lesser" General Public License (LGPL)
  ○ MIT license
  ○ Mozilla Public License 2.0
  ○ Common Development and Distribution License
  ○ Eclipse Public License

All Approved Licenses

Many other licenses are also OSI-approved, but fall into other categories, such as special-purpose licenses, superseded licenses, or retired licenses. Complete lists that include all approved licenses are available:

  ○ sorted by name (alphabetical)
  ○ sorted by category

- don't use CC for software!

- 3.

- attribution @ PCORI

- attribution depends on the desires of the author and the medium of work.

- attribution via:

  - linkback
- mention in article
- mention on website
- mention in "about" text in-app
- preservation of license.txt file

- "automated" attribution

Please note: An account is needed **only** to edit the CC Wiki. If you need an account, please email info at creativecommons org and we'll make you an account.

XMP

File Type Information	
Supports embedding license URL:	Yes
Supports embedding web statement:	Yes
Supports embedding more permissions:	Yes
Metadata Location:	(unknown)
Metadata Format:	(unknown)

XMP ⬚ (Extensible Metadata Platform ⬚) facilitates embedding metadata in files using a subset of RDF. Most notably, XMP supports embedding metadata in PDF and many image formats, though it is designed to support nearly any file type.

Creative Commons is recommending XMP as the preferred format for embedded metadata, given its support for numerous file formats ⬚ and the balkanized state of embedded metadata standards. Others are coming to a similar conclusion; Microsoft has announced support for XMP in Vista applications ⬚ and Jon Udell notes ⬚ "There's also good support in .NET Framework 3.0 for reading and writing XMP metadata." Note that even when embedded with XMP metadata, Creative Commons recommends a licensed document include a visible copyright notice; format-specific recommendations for visible notices are available.

The Creative Commons licensing process ⬚ offers a XMP template which may be used to mark files within XMP-supporting Adobe applications (step-by-step how-to document). An XMP FileInfo panel is also available.

Specifying License Information

XMP defines ⬚ a rights management schema (see XMP Specification, p. 42). Creative Commons sets the following properties (example values):

- **xmpRights:Marked** — *False* if Public Domain, *True* otherwise.
- **xmpRights:WebStatement** — *http://example.com/pdf-metadata.html* ⬚ (Replace with URL containing metadata about the XMP-embedded file; this is referred to as the Web Statement.)
- **xmpRights:UsageTerms** — An optional field describing legal terms of use; Creative Commons recommends that when present this take the form *This work is licensed to the public under the Creative Commons Attribution-ShareAlike license http://creativecommons.org/licenses/bysa/2.0/* ⬚ *verify at http://example.com/pdfmetadata.html* ⬚ (Replace URL following 'verify at' with URL containing metadata about the XMP-embedded file; this is typically the

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Home » People » Martijn de Boer (NiGiD) » "O Tannenbaum / Oh Christmas Tree"

O Tannenbaum / Oh Christmas Tree

uploaded: Tue, Dec 23, 2014 @ 8:59 AM   last modified: Tue, Dec 23, 2014 @ 8:59 AM (add)

Stream
Download (2 files)

I Used or Saw "O Tannenbaum / Oh Christmas Tree" In A...

Remix
Video
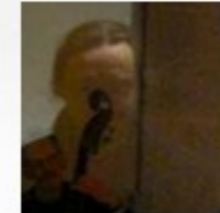**Web Page**
Album/CD
Podcast

by Martijn de Boer (NiGiD)
featuring Admiral Bob (admiralbob77)
length 2:48
bpm 95
recommends   Recommends (9)

Alternate bass for 'O Tannenbaum' by Admiral Bob.

season_songs, media, remix, editorial_pick, bpm_095_100, trackback, in_video, sample, ccplus, non_commercial, audio, mp3, 48k, mono, CBR, flac, VBR, admiral_bob, admiralbob77, guitar, bass, piano, rhodes, instrumental, blues, bluesy, jazz, jazzy, music_for_video, music_for_film, tannenbaum, christmas_tree, holiday, christmas, season, hanukkah, neo_soul, soul, electric, electric_guitar, telecaster, les_paul, drums, saxophone

Play

Recent Reviews

- Kara Square **Beautiful bass part!**
- Admiral Bob **Nice playing Martijn.**
- Speck **An excellent bass under the tree.**
- texasradiofish **Smoove tree music, MbB**
- keytronic **perfectly played and nice idea for the b...**

Read all...

Recommended by: **Admiral Bob (admiralbob77), Speck, unreal_dm, texasradiofish, Javolenus, Kara Square (mindmapthat), Alex (AlexBeroza), CSoul, keytronic**

"O Tannenbaum / Oh Christmas Tree"
by Martijn de Boer (NiGiD)

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Click **here** for how to give credit and other conditions.

Editorial pick

Bask in the beauty of the season with Martijn de Boer's holiday instrumental collab with Admiral Bob. It's the perfect backing track for photo presentations and winter videos.

Kara Square

Uses samples from:

O Tannenbaum by Admiral Bob

Remix History Chart

Samples are used in:

Video: watch?v=GzOc7kU4sCQ by Rufous.tv

CCPlus Licensing

Like this song? Click **here** to license this media for commercial use.

- 4.

- CC licenses and data

in non-human data, evidence of reuse and value creation.

Deposited Set 1: 20th May 2010 - GSK TCAMS Dataset (hits from *P. falciparum* whole-cell screening)

Welcome to the Tres Cantos Antimalarial TCAMS dataset. Screening of approximately 2 million compounds in GlaxoSmithKline's screening library identified inhibitors of proliferation of *P. falciparum* strain 3D7 in human erythrocytes. The dataset contains the structures and screening data for over 13,500 compounds confirmed to inhibit parasite growth by more than 80% at 2 uM concentration. The compounds' activity against the multidrug resistant Dd2 strain has also been measured for comparison. In addition, we have included data for a human cell cytotoxicity selectivity screen and also deposited an indication of the 'promiscuity' of the hits (the IFI index) in other high-throughput assays at GSK. Finally, a potential mode of action and predicted *P. falciparum* targets are listed for selected compounds. All efforts have been made to ensure data quality and accuracy, but users are reminded that these data carry the usual caveats associated with results from large scale screening.

GSK does not guarantee the accuracy of any data, nor the suitability of the data for any purpose, in accordance with the EBI Terms of Use.

The chemical structures and the generated data are hereby made public under Creative Commons' CC0 license: http://creativecommons.org/publicdomain/zero/1.0/ as a resource for antimalarial lead identification and basic research into the druggable genome of *P. falciparum*.

GSK have committed to provide any corrections, additions and appropriate new annotations or data to ChEMBL-NTD

If you publish on, or wish to reference the GSK TCAMS set please include the link to ChEMBL-NTD (www.ebi.ac.uk/chemblntd) and adapt the following citation language: Francisco-Javier Gamo, Laura M. Sanz, Jaume Vidal, Cristina de Cozar, Emilio Alvarez, Jose-Luis Lavandera, Dana E. Vanderwall, Darren V. S. Green, Vinod Kumar, Samiul Hasan, James R. Brown, Catherine E. Peishoff, Lon R. Cardon and Jose F. Garcia-Bustos. Thousands of chemical starting points for antimalarial lead identification. *Nature* **465**(7296) 305-310 (2010) [pdf]

For further information please visit http://www.gsk.com/responsibility/access/rnd-neglected-tropical-diseases.htm

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MMV
Medicines for Malaria Venture

DEFEATING MALARIA TOGETHER

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- R&D portfolio
- Curing malaria
- Tackling resistance
- Blocking transmission
- Essential information for scientists
- Open source research
- R&D process
- R&D interviews

Open access Malaria Box

The Malaria Box

Available free of charge, on request, the Malaria Box is a treasure trove of 400 diverse compounds with antimalarial activity. The Malaria Box has been assembled by MMV in a bid to catalyse malaria and neglected disease drug discovery and research. All of the compounds have confirmed activity against the blood-stage of *P. falciparum* and are commercially available. It includes:

- 200 diverse drug-like compounds as starting points for oral drug discovery and development

- 200 diverse probe-like compounds for use as biological tools in malaria research

The final selection, formatted as solutions at 10mM concentration in dimethyl sulfoxide, was distilled from around 20,000 hits generated from an extensive screening campaign of around four million compounds from the libraries of St. Jude Children's Research Hospital, TN, USA, Novartis and GSK. The selection was made to provide the broadest cross-section of structural diversity and, in the case of the drug-like compounds, properties commensurate with oral absorption and the minimum presence of toxicophores.

All that is asked in return of Malaria Box users is for the resulting data to be published and placed in the public domain to help continue the virtuous cycle of research.

Request the Malaria Box

The Malaria Box has been requested by scientists worldwide.

Follow-up guidelines

Results

Citations and references

Supporting information

Terms and conditions

FAQs

Press Releases

- November 2012
- July 2012
- December 2011

Article in Deutsche Welle Drug research: thinking inside the Malaria Box

Deutsche Welle radio interview

Scientific poster

OPEN SOURCE MALARIA
Looking for New Medicines

Lab Notebook

Project Wiki

WIKI

Join The Team

➡ The Open Source Malaria project is trying a different approach to curing malaria. Guided by open source principles, everything is open and anyone can contribute. About

Project Activity

See More

⭐ 22 Jan 2015 at 07:03 | **Series 3 Synthesis: Modification to sulfonamide group on right-hand side**

I am currently in the process of synthesising the following three Series 3 aminothienopyrimidine molecules with modifications to the sulfonamide group. Starting with 3-bromobenzene sulfonyl chloride, I performed the following three syntheses by reaction with pyrollidine, methylamine and dimethylamine: ![tf9-1 synthesis]
(https://cloud.githubusercontent.com/assets/9027414/5855044/d02fb7c6-a22b-11e4-8050-5b814f261b14.png) ![tf10-1 synthesis]
(https://cloud.githubusercontent.com/assets/9027414/5855047/d7de95e6-a22b-11e4-90dc-54f0aea80a81.png) ![tf11-1 synthesis]
(https://cloud.githubusercontent.com/assets/9027414/5855057/e50f9d1e-a22b-11e4-807d-f27abd5bba9c.png) [TF9-1]
(http://malaria.ourexperiment.org/aminotpseries/11416/Synthesis_of_13bromophenylsulfonylpyrrolidine_TF91.html) yielded an impure white solid, and NMR analysis showed that it was pure enough to take on as-is and use in the next stage of synthesis. [TF10-1]
(http://malaria.ourexperiment.org/aminotpseries/11418/Synthesis_of_3bromoNmethylbenzenesulfonamide_TF101.html) and [TF11-1]
(http://malaria.ourexperiment.org/aminotpseries/11420/Synthesis_of_3bromoNNdimethylbenzenesulfonamide_TF111.html), however, produced a brown oil and a gooey brown solid (like a melted fruit pastille) respectively - and the NMRs were very messy! We decided the impurity of the products were mainly due to two factors: leaving the reaction mixture stirring overnight, and using some very old amine hydrochlorides (vintage 1999 edition). Instead of wasting time with two columns, I repeated the reactions on the same scale - but instead, used liquid methylamine and dimethylamine, and only left the reactions stirring for 90 minutes: ![tf10-2 synthesis]
(https://cloud.githubusercontent.com/assets/9027414/5855105/654e5678-a22c-11e4-8148-

OSM Cambridge

OSM Sydney and Norwich

OSM Edinburgh

OSM Brisbane

OSM Lucknow

OSM Sydney

OSM Sydney

OSM Brisbane

OSM Melbourne

OSM Madrid

OSM Sydney

OSM Göteborg

OSM Geneva

Open Source Malaria Series 4: The Triazolopyrazine (TP) Series

What's New

This series is currently **active**. (How to respond/input, for example if you want to suggest a molecule that should be made, is described in the Landing Page ⧉ under "Join the Team")

Automatically updated list of to do items in this Series🔒

Automatically updated list of compounds being made in this series🔒

Most recent online meeting relevant to this series ⧉

April 2014 PDF newsletter may be downloaded using this link 🗎. Late 2014 newsletter under construction at GHI 269🔒 .

Introduction

Preamble

The Triazolopyrazine Series is the newest of the OSM series. It was announced by MMV ⧉ and on the OSM blog (*via* the briefing document ⧉ and as a general description ⧉) on September 10th 2013 and is sometimes referred to as the *TP Series*, or *OSM Series 4*.

OSM SERIES 4
The Triazolopyrazine (TP) Series
(Representative Compound)
Already investigated in Pharma/CRO
Promising PK
Possible PfATP4 activity

Representative Series 4 Compound
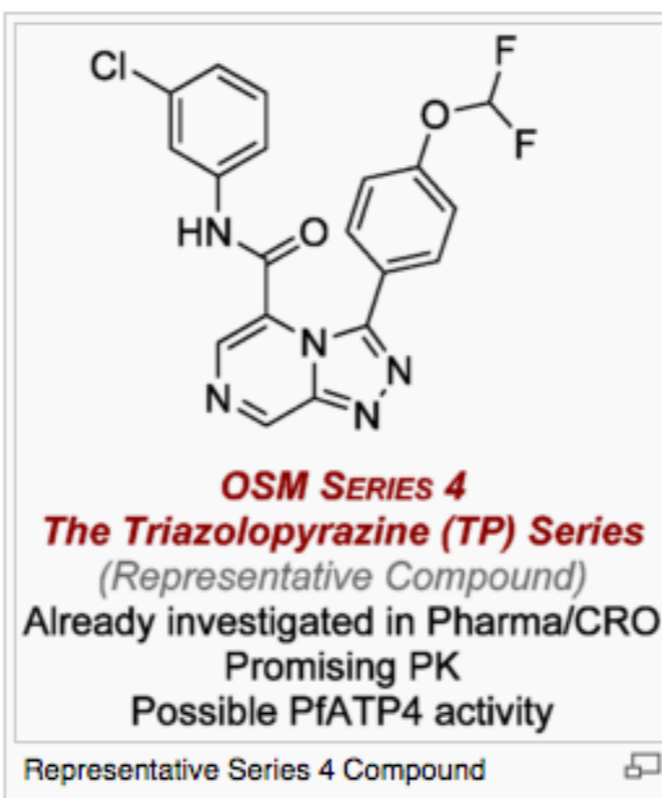
The series arises from industrial work that cannot be fully disclosed which was followed by some hit-to-lead work funded directly by MMV and performed by a CRO which can.

A great deal of exploration of the series has been done, with significant diversity in the core and pendant groups. The series includes many potent compounds, all of which are detailed on this page.

This part of OSM is a lead optimisation project, now aiming to improve solubility, potency and metabolic stability while reducing hERG activity.

As with everything involved in OSM, suggestions can be given in multiple ways ⧉.

DND*i*
Drugs for Neglected Diseases *initiative*

ABOUT US | DISEASES & PROJECTS | TREATMENTS | STRENGTHENING CAPACITY | ADVOCACY | MEDIA CENTRE | PARTNERSHIP | DONORS

Over 1 billion people, including 500 million children, in the poorest regions of the world, are affected by neglected diseases that debilitate, disfigure or kill.

SPOTLIGHT « »

© Harald Henden

PAEDIATRIC HIV

Testimonies of South African mothers: demonstrating the difficulties in administering current treatments for paediatric HIV More

DISEASES & PROJECTS

Neglected tropical diseases continue to cause significant morbidity and mortality in the developing world. Yet, of the 1,556 new drugs approved between 1975 and 2004, **only 21 (1.3%) were specifically developed for tropical diseases and tuberculosis, even though these diseases account for 11.4% of the global disease burden.**

Human African Trypanosomiasis
Endemic in 36 African countries with 60 million people at risk, sleeping sickness or...
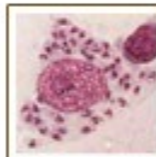
Leishmaniasis
Occurring in 98 countries with 350 million people at risk worldwide, leishmaniasis...

Chagas disease
Endemic in 21 countries across Latin America and killing more people in the region than malaria...

Malaria
Killing one child every minute in sub-Saharan Africa and approx. 1,300 children every day...

Paediatric HIV
3.2 million children below 15 years of age are living with HIV globally, mainly in sub-Saharan Africa. 700 of them die every day...

Filarial Diseases
120 million people are infected with Lymphatic filariasis (Elephantiasis) and 25 million with Onchocerciasis (River Blindness)...

DNDi NEWS

20 January 2015
Speaking of Medicine: "FDA Voucher for Leishmaniasis Treatment: Can Both Patients and Companies Win?"

29 December 2014
SLAS Electronic Laboratory Neighbourhood - "Neglected Infectious Diseases: Making Progress, but Burden Remains"

16 December 2014
DNDi Receives US$ 10 Million from USAID to Develop New Drugs for Neglected Filaria Patients

09 December 2014
Die Welt - "Tierarznei soll Menschen mit Würmern helfen"

09 December 2014

in human data, significant tension between promising control and promising benefits of reuse.

scikit-learn
algorithm cheat-sheet

classification

kernel approximation

SVC Ensemble Classifiers

KNeighbors Classifier

SGD Classifier

NOT WORKING

NOT WORKING

Naive Bayes

Text Data

Linear SVC

NOT WORKING

<100K samples

NO

YES

NO

YES

START

get more data

NO

>50 samples

YES

predicting a category

do you have labeled data

YES

YES

NO

NO

predicting a quantity

YES

NO

regression

SGD Regressor

ElasticNet Lasso

SVR(kernel='rbf') EnsembleRegressors

<100K samples

NO

YES

few features should be important

YES

NO

NOT WORKING

RidgeRegression SVR (kernel='linear')

clustering

Spectral Clustering GMM

NOT WORKING

KMeans

YES

<10K samples

YES

number of categories known

NO

NO

NO

<10K samples

YES

MiniBatch KMeans

MeanShift VBGMM

just looking

YES

NO

tough luck

predicting structure

dimensionality reduction

Randomized PCA

NOT WORKING

Isomap Spectral Embedding

NOT WORKING

LLE

<10K samples

YES

NO

kernel approximation

Sage
BIONETWORKS

Research ˅   Platforms & Services ˅   Work with Us ˅

Synapse   Bridge   Challenges   Governance   E Consent

The Sage Bionetworks governance team works with legal, ethical, and regulatory experts to develop and implement the policies and procedures for appropriate data sharing on each of our collaborative platforms: Synapse and BridgeServer.

We have a unique set of data governance challenges, as our systems cover the entire life cycle of research data, from generation to analysis and reuse. This necessitates that we develop governance policies and procedures that facilitate the creation of scientific insights while prioritizing the protection and respect of individuals who provide their data.

Our governance process for the Synapse collaborative data platform includes well-documented Terms and Conditions of Use, guidelines and operating procedures, privacy enhancing technologies, as well as the right of audit and external reviews. Synapse operates as an IRB-approved environment to store, activate, analyze, and collaborate on data. It contains "tiers" of data access based on the nature of the data and the conditions delineated on the consents for the data's generation, ranging from very wide reuse "Open" to "Controlled" where requests are evaluated before access is granted.

We believe in empowering individuals to contribute their data and insights as research partners on the health problems that matter most to them. We are developing governance mechanisms for the responsible collection and use of digital research assets via web and mobile health applications, that address the concerns for privacy and data protection in a comprehensive manner and manage participant's preferences.

We generated the Participant-Centered Consent (PCC) toolkit for electronic informed consent, or e-consent. The toolkit is designed for people who are designing clinical studies and who wish to make their informed consent user-centered, rather than document-centered. It contains the building blocks of a visual, interactive approach to informed consent. The PCC toolkit lets its users create visual summaries of consent forms, mapped to key underlying text, for use in software or print.

Last, we build tools to increase the effectiveness of our governance tools. This includes comprehension assessments (for both Synapse users and for clinical enrollment), templates for patient-reported data contribution, tools, and more.

All of our governance policies and processes are available at the links below.

and what we think of as "data" is changing, fast.

thank you!

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