

Databrary Standard Operating Procedures

1. What is Databrary?

Databrary (<http://databrary.org>) is a data library intended to foster sharing of information among researchers. It is an ecosystem for sharing behavioral and neural science data and the tools to analyze those data among a community of researchers. Databrary aims to facilitate data sharing and greater transparency within labs, among collaborators, with other researchers and members of the larger developmental and behavioral science community, and with the general public.

Databrary contains *De-Identified Data*, *Non-Identifiable Data*, and *Metadata*. Databrary also contains *Identifiable Data* – video/audio recordings and photographic images Databrary calls *Recordings* – and other sensitive materials, such as *Self-Reported Health-Related Information*. The tools stored in Databrary consist of software that aids the extraction, visualization, and analysis of time-series-based research data. These tools may be open source, freeware, or commercially licensed, and may be supplemented by sample data sets, web links to data sets shared elsewhere within Databrary, or documentation. Every data set and tool will have its own unique, permanent, uniform resource locator (URL) – web address – so that researchers may both take credit for their own Databrary contributions and properly and consistently cite the Databrary resources they use from others.

The Databrary ecosystem also includes a database of researchers, called *Investigators* or *Affiliate Investigators*, who have authorization to use and contribute data. The database keeps track of the identities of each *Investigator* or *Affiliate* who contributes to, browses data within, or withdraws data or tools from Databrary.

This document sets out Databrary's Standard Operating Procedures (SOPs). Section 2 describes the challenges that must be met in creating a data sharing system for sensitive, identifiable data. Section 3 describes Databrary operating procedures. Sections 4 and 5 describe other documents involved in Databrary operations and definitions of key terms which are italicized throughout the text, respectively. For the latest versions of Databrary policies, see the links at <http://databrary.org/about/#policies> or <http://github.com/databrary/policies/>.

2. The Challenges of Databrary

Implementing the Databrary ecosystem poses several challenges. The most crucial challenge concerns research ethics. Databrary must keep the *promise of confidentiality* given to *research participants* who provide *identifiable data* while upholding the principle of informed consent.

Any identification of a *research participant* or unauthorized disclosure of confidential information violates the *promise of confidentiality* given to the *research participant*. This requirement poses a challenge. Many of the sources targeted for sharing in Databrary contain *personally identifying information* about *research participants* and other individuals involved in a study. Images and/or voices may be visible or heard. Names may be spoken out loud. Images and voices of visitors or other people who are not *research participants* may be recorded. If a study takes place in a home or other setting, aspects of that home or setting may be recorded. Thus, individuals or locations could be identified from recordings. Those *depicted individuals* include *research participants* and other *private persons* who are not the targets of a research study.

It is technically possible to try to turn *recordings* into *de-identified data* through blurring, distortion and other means of modification, but doing so diminishes scientific value. Therefore, Databrary must do everything possible to ensure that data sets are used solely for research purposes and not for the investigation of specific individuals. Databrary and its users must do everything practicable to minimize the chances that individuals can be identified from information shared within Databrary. Databrary staff and Investigators must understand, certify competence in, and abide by the highest standards of ethics concerning research with human participants. This means that no data files can be deposited, stored, or shared within the Databrary ecosystem that contain *personally identifying information* beyond that incidentally contained in the recordings—faces, voices, names, and the physical location of the recording.

At the same time, the principle of informed consent requires that *depicted individuals* must give permission for their *recordings* to be shared with others in Databrary. Similarly, individuals who provide sensitive information, such as *self-reported health-related information* should be given the opportunity to give or refuse permission for this information to be shared. *Depicted individuals* and *research participants* must decide what *level of sharing permission* they wish to give: no permission at all because they do not wish to share *recordings* or *self-reported health-related information*, or sharing permission with the assurance that shared data will be treated with care by other researchers. Only recordings for which permission to share has been given by all *depicted individuals* may be shared openly in the Databrary. Similarly, only *self-reported health-related information* for which permission to share has been given may be shared in Databrary. In turn, Databrary must ensure the level of access that depicted individuals have granted. This means that information about *sharing permissions* must be permanently linked with individual data files in Databrary. It also means that researchers who access files in Databrary must agree to follow the wishes of individuals who grant permission for their *recordings* or other sensitive data to be shared.

3. How Databrary Will Work

This section describes in detail how Databrary will work, from accessing data, metadata, and tools stored in the library to the contribution of new information.

3.1 Accessing data sets or tools from Databrary

Some information may be easily shared with minimal restrictions so long as *personally identifying information* has been removed and there are no restrictions on the how long the information may be stored. Sharing *recordings* or other data with *personally identifying information* or sensitive information such as *self-reported health-related information* must be shared only among researchers who understand, embrace, and formally agree to abide by principles of research ethics that include maintaining participant confidentiality. Thus, Databrary must monitor and control who has access to data sets and what level of access they are granted.

Level of access permitted to data or software

There will be two levels of access: (1) *public/unrestricted*, and (2) *restricted, but open* to authorized *Databrary Investigators* and *Affiliate Investigators*. We considered a restricted form of sharing among researchers identified by investigators, but rejected it as incompatible with the data sharing requirements of federal funding agencies.

The Databrary system will have a set of pages that allow the public unrestricted access to archival materials (e.g., Gesell movies), materials that do not contain sensitive information (abstracts, researcher information, protocols, visual displays, coding manuals, etc.), and links to data analysis/software tools. If *depicted individuals* have given permission to share *excerpts* from *recordings*, the public preview pages will include *excerpts*. *Identifiable* or sensitive data—*recordings*, coded spreadsheets linked to *recordings*, *self-reported health-related information*—and *metadata* will be assigned to the *restricted, but open* access level in almost all cases.

Means of access, user accounts and privileges

There are three means of access to Databrary's assets: *browsing*, *downloading*, and *contributing*. Individuals who wish only to browse Databrary's public/unrestricted assets may do so without authorization from Databrary, however for security reasons the system will log access by internet protocol (IP) addresses (see Access Logging/Usage Metrics). Unauthorized/unregistered individuals may not comment in Databrary's comment sections, contribute data, or carry out other functions reserved for *Databrary Investigators* or *Affiliate Investigators*. Those who wish to browse Databrary's *restricted, but open* assets must apply for *Databrary Investigator* or *Affiliate Investigator* status.

Who May Apply for Databrary Investigator or Affiliate Investigator Status

Databrary Investigators must be eligible for Principal Investigator (PI) status at their home institutions. Graduate and undergraduate students, postdoctoral researchers, research scientists, and research staff may be granted *Databrary Affiliate Investigator* status if they are carrying out research under the supervision of a *Databrary Investigator*. *Databrary Investigators* who supervise *Databrary Affiliate Investigators* must (1) grant permission to researchers under their supervision to view data on their behalf, and (2) agree to take responsibility for the data use of the sponsored members under their supervision, and (3) take responsibility for the security of the data (where data are stored, etc.) by following best practices in data security (see Appendix D).

Timing of Databrary Investigator or Affiliate Investigator Application for Researchers Who Want to Contribute Data

A researcher may apply for *Databrary Investigator* status before formal permission has been granted by an IRB for collecting or contributing a given data set, but no contributions can be shared with Databrary until *Databrary Investigators* demonstrate that they (1) have permission to share a given data set from a *research supervision entity* (e.g. IRB), or (2) have demonstrated that no official permission is needed.

Application Process

Application for *Databrary Investigator* status may be made via a web form. The following information will be sought:

Required for all *Databrary Investigators* and *Affiliate Investigators*:

- Name, title, institution, surface address, email, phone.
- Unique Databrary username and password. The user name may be the applicant's official institutional access ID (e.g. rog1@psu.edu).
- Certification of PI status eligibility from appropriate research supervision entity.
- Research ethics with human participants training certification (e.g., Collaborative Institutional Training Initiative, CITI; <https://www.citiprogram.org>), and expiration date of current authorization.
- Information about *research supervision entity* (IRB or equivalent) that governs the applicant's scientific activity, if applicable, including name(s) of *representative(s) of the institution*, surface address, telephone number, email.
- Required for *Databrary Affiliate Investigator* applicants: Information about the research supervisor (Name, Databrary user ID, and email)
- An electronically signed copy of the *Databrary Investigator Agreement* (See Appendix A).

The agreement obligates applicants to follow principles of ethical research with human participants, to seek permission to share recordings or self-reported health-related information from participants, to convey those permissions to Databrary, to keep their research supervision offices informed about their activities, to follow best practices in data security (Appendix D), to follow the Databrary Bill of Rights (Appendix E), and other principles.

Optional, but recommended

- Applicant web site, Research Gate (<http://www.researchgate.net>) profile, social media accounts, ERA Commons ID.

Application review

Once a *Databrary Investigator* or *Databrary Affiliate Investigator* application has been completed and submitted, applicants and the *representative(s) of the institution* will receive an automated email confirmation that an application has been received and is under review. Databrary staff will review applications to determine the following:

- Applicant identity information is valid and correct.
- Applicant has human participants ethics clearance from CITI, a governing *research supervision entity* or its equivalent.
- Applicant has PI eligibility or its equivalent at their institution.
- Applicant has not violated Databrary use standards in the past.

For individuals seeking Databrary *Affiliate Investigator* status, the supervising/sponsoring Databrary *Investigator* will be notified via email that an application has been filed. The supervising/sponsoring Databrary *Investigator* will log on to Databrary, approve (or not) the *Databrary Affiliate Investigator* status application, and provide information about the level of access to be provided to this individual: browsing only, or browsing + downloading, or browsing + downloading + uploading.

Project staff under the supervision of the Project Director (Adolph) and Associate Director (Gilmore) will conduct the review and approval. The Databrary Ethics committee will audit the procedures annually. The Databrary Ethics Committee will consist of staff, Advisory Board members, and the research community at-large.

If an application requires revisions, project staff will communicate the nature of those revisions via email. All email correspondence will be logged. Once an application is approved, researchers and the official(s) from the *research supervision entity* will be notified by email. The welcome/notification email will include reminders about Databrary policies regarding data use and citation.

Access logging/usage metrics

Databrary will log access to the system by Databrary *Investigator* ID and by IP address. Most access logging information will be used by Databrary for internal security, user metrics, and management functions. Some summary information about files browsed, downloaded, shared, or modified may be announced via Databrary Twitter, Facebook, RSS, and other web/social media feeds. For example, Databrary may identify and publicize which data sets are most often browsed, downloaded, and cited. Databrary *Investigators* will have access to information about Databrary activity of *Affiliate Investigator* members of the *Investigator's* research team through an administrative control panel.

Browsing and downloading

Any member of the public may browse data or download tools with *unrestricted/public* level of access. Individuals with Databrary *Investigator* or *Affiliate Investigator* status may also browse or download assets with *restricted, but open* access. When *Investigators* or *Affiliates* request data sets to download, the Databrary system will remind them to cite data sets and associated papers, to obtain appropriate approvals for conducting research, to follow best practices for data security (Appendix D), and to remove and destroy *data* that are no longer needed. Databrary will also send periodic email reminders to *researchers* who download *data* reminding them to follow these practices.

Many Databrary uses will involve browsing or downloading datasets without conducting *research* on those data (e.g., finding excerpts for teaching, searching for exemplars to facilitate study design, pre-research activities to determine whether formal analyses are feasible or promising). If *Investigators* or *Affiliates* intend to conduct *research* with datasets, they may be required to obtain permission from a *research supervision entity* at their *institution*. Decisions about whether *Investigators* or *Affiliate Investigators* may conduct research on data sets or the type of research proposed are beyond Databrary's control. Thus, whenever permitted by the *research supervision entity* that supervises their research, *Investigators* or *Affiliate Investigators* may conduct research on data sets derived from Databrary. It is the explicit responsibility of the *Investigator* or *Affiliate Investigator* to obtain the necessary permissions to conduct research by their respective *research supervision entity*. This is clearly stated in the *Databrary Investigator Agreement* (Appendix A). When such approval is sought and secured, the *Investigator* or *Affiliate Investigator* must provide Databrary with the approved protocol name, IRB or equivalent protocol identification number, and expiration date.

Account renewal

Investigator and *Affiliate Investigator* accounts must be renewed annually. Databrary will send email reminders that accounts are due to expire 1 month, 2 weeks, and 1 week prior to the expiration date and ask *Investigators* and *Affiliates* to update their account information. To renew their accounts, *Investigators* and *Affiliates* will also electronically sign the *Databrary Investigator Agreement*. Information about account renewals will be sent to research ethics staff at each member's home institution. At the annual renewal, Databrary will also send *Investigators* information about how their data sets have been accessed. If a *Databrary Investigator* or *Affiliate Investigator* fails to renew his or her account by the renewal deadline, the account will be suspended. The account will be reactivated on completion of the renewal procedures. Accounts that are not renewed within 6 months of the suspension date will be archived. Data contributed by *Investigators* or *Affiliate Investigators* who do not renew their accounts will remain on Databrary.

3.2. Deposits

Researchers who wish to contribute to Databrary must do some planning in advance. They must:

- Determine the source(s) of the data to be deposited;
- For *recordings* or *self-reported health-related information*, determine whether *depicted individuals* or *research participants* must give *permission to share*; in most cases, the answer is yes.
- Seek and be granted, as appropriate, permission to collect and share data from the *research supervision entity* that governs research at the *Investigator* or clinician's home institution;
- Secure *permission to share* from *depicted individuals* or *research participants* using the Databrary *permission to share* templates or equivalent language that has been approved by the *Investigator's research supervision entity*.

- Apply for and be granted Databrary *Investigator* or *Affiliate Investigator* status with Databrary;
- Prepare *recordings* for sharing with Databrary, including tagging files with the *level of permission* granted by *depicted individuals*. Remove *personally identifying information* from other *data* and *metadata*.

Sources

There are two main sources of *recordings*: (1) *recordings* collected by researchers or clinicians in laboratory or clinical contexts, and (2) *recordings* collected from incidental sources not intended for *research* or clinical purposes. The latter may include home movies or videos, recordings from security cameras or microphones, cameras or other recordings made in public places, and recordings shared with the public via web portals such as YouTube (<http://www.youtube.com>) or Vimeo (<http://vimeo.com>). Laws governing whether *recordings* made in public places may be used for research purposes vary. Researchers who wish to deposit *recordings* from these or other non-laboratory/non-clinical setting sources should consult with their local *research supervision entities* for specific permission to *share recordings* with Databrary.

There are two primary types of studies involving *recordings* and other data streams: (1) new *recordings* with associated metadata (coding spreadsheets, analyses, manuscripts, etc.); and (2) reused *recordings* (complete *recordings*, subsets, or files culled from different original sources) with new associated metadata (e.g., new codes). The same *Investigator* or research team may reuse original *data* deposited in Databrary. Databrary will implement a version control/date system to record modifications to, reanalyses of, and extensions to *data*. Versioning does not change the status of study types. Versions and reused data sets will retain links with the original and subsequent studies.

Seeking permission To share data

Researchers who wish to share data with Databrary should seek permission to do so from their governing research supervision entity, such as an IRB. Individuals whose scientific activities are not governed by a research supervision entity may choose to have their protocol reviewed by another entity with similar authority. In preparing applications to the research supervision entity, researchers are strongly encouraged to refer to and use the document(s) provided by Databrary (see Section 4).

Links to all of the relevant Databrary documents concerning permissions and access may be found on the Databrary website (<http://databrary.org/about/#policies>).

Applying for approval to share data from a specific study

In addition to securing Databrary *Investigator* status, researchers who wish to deposit data must file a separate web-based application to share data from a specific study or source. That application seeks information commonly included in an application to an IRB for approval to conduct a study. In particular, the following information will be required:

- Databrary ID(s) of all principal or co-investigators on a project.

- Agreement from all data owners to share data.
- Verification of Databrary *Investigator* status for all study PIs/data owners.
- Study name, target population, and thematic tags.
- IRB protocol identifier or number, title, and expiration date.

Databrary Investigators or *Affiliate Investigators* who wish to conduct *research* by reusing or reanalyzing an existing data set should provide comparable information, typically at the time approval is sought from a research supervision entity. In most cases, *research on data* in Databrary requires an application to conduct secondary data analysis.

Study-level application review

Once study-level applications have been completed and submitted to Databrary, applicants and their research supervision entity official(s) will receive an automated email confirmation that an application has been received and is under review. Databrary staff will review applications to determine that the proposed *data* to be deposited does not violate Databrary's Bill of Rights (Appendix E) or best practices in data security (Appendix D).

Project staff will carry out the study-level review under the supervision of the Project Director (Adolph) and Associate Director (Gilmore). The Databrary Ethics Committee will audit the approval and review process annually.

If the proposal requires revisions, the project staff will communicate the nature of those revisions via email. Individuals whose applications are rejected by Databrary project staff may appeal the decision to the Databrary Ethics Committee. The decision of the Databrary Ethics Committee is final.

Data set contribution approval

Once Databrary staff have confirmed that an application to deposit *data* meets Databrary standards, the *Investigator(s)* and the *research supervision entity* official(s) will be notified by email. That email will include information about how and where the data may be uploaded to Databrary. Each data set or tool contribution will be assigned a unique and permanent uniform resource locator (URL), such as

<http://databrary.org/study/12345>

or

<http://databrary.org/tool/4321>

At this point, the data owner(s) may begin data collection, or if the *data* have already been collected or the tool readied for sharing, may proceed to upload the *data* or tool.

3.3 Securing permission from participants to share data

Under most circumstances, the collection of *recordings* requires that individual participants, and for minors their parents or legal guardians, give written informed consent to participate in some specific research activity. Databrary will require that *Investigators* demonstrate that they have secured explicit written permission (or for minors assent and parent/guardian permission) to share *recordings* with Databrary from each individual depicted in a recording — not just *research participants*— or that the research supervision entity has waived the requirement for explicit written permission. Similarly, Investigators who wish to share *self-reported health-related information* must also gain permission or assent to share these *data* with Databrary.

How will permission to share data be secured?

Databrary will publish *permission to share* templates. Examples can be found in Appendix B. These templates may be submitted with *research supervision entity* applications for research, and should be used by *Investigators* when they seek *permission to share* from *research participants* or *depicted individuals*.

What kinds of permissions to share may be granted

Depicted individuals (or their parent or legal guardians) or *research participants* (or their parent or legal guardians) may grant different *levels of permission to share*. Permission/assent to share *recordings* should be sought separately from *permission to share self-reported health-related information*. The sharing levels for each are as follows:

No sharing (Level 0)

No *recordings* or *self-reported health-related information* may be shared beyond the research team on the IRB-approved protocol. *De-identified data* (coding spreadsheets, survey data, physiological data) and aggregate results and statistical analyses may be shared with *Investigators* and *Affiliates* as long as the research supervision entity has placed no time limitation on the duration of data storage.

Sharing (Level 1)

Recordings or *self-reported health-related information* may be shared with all Databrary *Investigators* and *Affiliates*.

Permission to share recordings is separate from permission to permit excerpts

Databrary requires that separate permission be sought to share *excerpts* with the public from the permission to share *recordings* with other researchers. An excerpt is a selection from a larger *recording* that illustrates a particular point or demonstrates a finding. It is typically no more than a few seconds or minutes in length and may be either a video or audio clip or a still image.

Many researchers now ask research participants for permission to share *excerpts* in various public settings — classrooms, scientific talks, in textbooks, with the media, and on research web sites. Databrary staff believe that from the point of view of a *depicted individual*, these distinctions between public venues are virtually meaningless and impossible to monitor or enforce. Researchers don't consistently control who is in their classrooms or presentations, who records a lecture or talk, or how materials are distributed. Thus, under current practice, well-

meaning investigators may be inadvertently implying that they have more control over an excerpt than is actually the case.

Accordingly, Databrary *permission to share* templates requires that *depicted individuals* give separate *permission to share excerpts* with the public. The template permission document asks whether *depicted individuals* give permission for *Investigators* to select *excerpts* and to share them with the public for scientific and/or educational purposes. The template further states that in giving permission, *depicted individuals* trust that Databrary *Investigators* will use professional judgment and uphold ethical principles in determining which excerpts to share. Generally speaking, *Investigators* should refrain from creating excerpts for all individuals in a data set.

When should permission to share data be sought?

Permission to share *recordings* or *excerpts* with Databrary should be sought *after* a testing session is complete. This creates a clear separation between the consent an individual (or parent or legal guardian) gives to participate in research and the *permission to share*. It also ensures that individuals can give informed consent about what sorts of behaviors were recorded during a testing session, and thus, what will be shared. Separating the consent to participate from the *permission to share* may also reduce the likelihood that participant in-take procedures are unduly prolonged by the additional procedures involved in sharing *data*. No *Investigator* should coerce *depicted individuals* or *research participants* to share.

How will the levels of permission granted by participants be linked to files?

Investigators who collect *identifiable data* will be responsible for ensuring that every *depicted individual* on a recording gives *permission to share* with Databrary. *Permission to share* may be secured in writing on paper forms or by electronic signature, but *depicted individuals* must be given paper records if electronic signatures are given. Paper copies of the signed *permission to share* form(s) must be kept in secured files comparable to those used for storing informed consent forms. If no *permission to share* is secured or written documentation of a *research participant* or *depicted individual's* preference is lost or damaged, then the data in question may not be shared.

There are two ways the *level of sharing permission* may be associated with an individual's data files.

Manual linking of permission to share levels with individual data files

Investigators may keep electronic records, in tab or comma-delimited text files, spreadsheets, or comparable formats that provide information about the participant and the level of permission granted. For example, such a file might have the following format:

participant-id	test-date	months-at-test	sex	share	excerpt
study01_7821	20121230	4.25	m	0	0

study01_7822	20121231	4.75	f	1	1
study01_7823	20130102	5.15	f	1	1

In some cases, multiple individuals may be depicted on a recording, some who are research participants, and some who are not. In this case, the permission file may look as follows:

participant-id	test-date	months-at-test	sex	share	excerpt
study01_7827	20121230	5.15	m	0	0
study01_7827_01	20121230	NA	NA	1	1
study01_7827_02	20121230	NA	NA	1	0
study01_7825	20130102	240	M	1	1
study01_7825_01	20130102	NA	NA	0	0

In this case, the recording featuring participant 7827 includes two other individuals (7827_01, and 7827_02) both of whom who gave level 1 (sharing) permission. But, the participant's parent or guardian did not give permission (Level 0), so that level will be binding on the entire recording. Similarly, for the recording featuring participant 7825, level 1 (sharing) permission was given, but a non-participant (7825_01) refused to grant sharing permission. Thus, no *recording* depicting this individual may be shared. If the *recording* can be edited to remove this person from the recording, the modified file may be shared.

When uploading a data set to Databrary, contributors will enter the permissions information into a web form along with any *data* that they upload, so that Databrary can associate *permissions levels* and any demographic information available with each data file. Investigators are strongly encouraged to provide participant's age-at-testing and sex, but are not required to provide any information. A missing permissions level will be treated as level 0 both for sharing and for excerpts.

Automatic tagging of individual data files with permission to share level

Some *Investigators* may choose to use Databrary's Labnanny data management environment once it is developed. Under this scenario, Labnanny would be used by the *Investigator* to collect metadata about *research participants* and their *sharing preferences* at the time of each lab visit. That metadata would be entered into the Labnanny system during or shortly after a visit, and the Labnanny system would contain a centralized, electronic version of the manual file described previously.

Then, when an *Investigator* decides it is time to share a given data set, the *sharing permission levels* and related individual-level *metadata* identified at the time of data collection will be transferred to Databrary via the Labnanny software.

How will levels of permission to share be maintained within the Databrary system once files have been uploaded?

Databrary will maintain a database for each study, and each study will include individual-level records for each data set for which *sharing permission* has been granted. Any data with permission level 0 will never be shared beyond the PI's research team, and in some cases these files may not be uploaded at all. However, Databrary will still collect demographic and *de-identified data* associated with these participants. This is necessary in order to allow meta-analyses and subsequent data set users to determine what proportion of the shared or published data was actually shared with Databrary. For files with permission to excerpt, *Investigators* may create *excerpts* for use in public. Investigators may share excerpts with the public, only with other *Investigators* or *Affiliates*, or not at all.

Files denoting the individual-level sharing levels will accompany each data set when it is downloaded. Before downloading data, Investigators will be reminded of their promise to upholding *sharing permissions* granted by the original participants and to their other obligations that are part of the *Databrary Investigator Agreement*.

A future version of the Datavyu coding tool will use the *permission to share* file to provide reminder alerts/warnings to investigators about the level of access permitted for a given data set. But, for the time being, investigators will have to monitor the use manually.

3.4 Sharing with Databrary

Before a data set may be shared with Databrary, investigators must evaluate recordings and associated individual-level *metadata* for volatile or sensitive content. Even if a participant (or parent or legal guardian) has given permission to share, the ultimate responsibility for determining whether *data* should be shared lies with the investigator. If an investigator determines that an individual's data set should not be shared, the investigator will mark it as such in Databrary.

Investigators who contribute data provide study-level metadata

Databrary will include investigator-level, study-level, participant-level, and measure-level *metadata*. Researchers provide investigator-level *metadata* at the time they apply for *Investigator* status and preliminary study-level *metadata* at the time they apply to deposit a specific data set. Prior to or during the process of uploading participant-level *data* to Databrary, *data contributors* may provide enhanced study-level *metadata*. This may include manuscripts, posters or talks, figures, statistical analysis scripts, code books, or grant proposals. The default will be for study-level *metadata* to be open to the general public (*open/unrestricted*).

Contributors upload/deposit data to Databrary

Investigators or *Affiliate Investigators* may either upload data to Databrary manually, using the Databrary site's upload tool or use the automated file transfer system embedded within Labnanny. *Investigators* or *Affiliate Investigators* must log-on to the Databrary system in either case. With manual deposit, *Investigators* or *Affiliate Investigators* must select the study for which data are being uploaded, the participant permission file, and the individual files that will be uploaded.

Labnanny users or users of other lab management software compatible with the (to-be-developed) Databrary application program interface (API) will simply indicate that a data set is ready to share. The Labnanny or other software will manage the upload/transfer process.

Databrary translates video and metadata into common format(s)

Once data sets have been uploaded to Databrary, they will be automatically converted into a standard set of formats. The specific formats will be determined based on an assessment of how best to preserve the data for the long term using open (non-proprietary) formats, but UTF-8 and H264 video formats are leading candidates for text and video files, respectively. Databrary will publish information about the data formats accepted for deposits and those used and supported within the data sharing system.

Databrary data quality checking

Once the file conversion process has completed, a set of automated and manual data quality checks will commence. The automated checks will assess whether sharing permission levels have been provided for every individual participant in the uploaded data set and whether *personally identifying information* have been provided in the uploaded data. Manual data quality checks will assess transcoding quality—whether video/audio is readable. If the quality of the transcoded recordings is poor, they will be checked against the uploaded original files. If the original files are in good condition, they will be transcoded again. If the original files are in poor condition, the contributor will be asked to upload the files again.

Once Databrary has certified that an uploaded data set is ready to share, the *data contributor* will receive an email indicating that fact. Contributors may then review the data set. When contributors are ready to share the data set, they will log on to Databrary and share the data set.

Databrary publishes data with permanent URL

When a new data set is released for sharing, Databrary will announce the event on its website with the data set's description, author(s), and URL. Databrary will also announce new data sets on Twitter, Google+, Facebook, and other social media, as appropriate. *Investigators* may choose to subscribe to a data set or another *Investigator's* news feed to receive updates about new contributions or revisions to old ones.

Investigators may choose to share partial data sets and update or modify them as new data becomes available or new analyses are conducted. Databrary will maintain a versioning system similar to that used by Github (<http://github.org>) to maintain records about data provenance. Significant modifications or additions to existing data sets will also be published via the web, email, and social media.

3.5 Ensuring Ethical Practices, Handling Violations

Databrary Ethics Standards

Databrary intends to uphold the highest standards of integrity. These standards include the following:

- every Databrary staff member, *Investigator*, and *Affiliate Investigator* will complete training in research ethics involving human participants from an official *research supervision entity* and keep current their human participants training certification with such an entity.
- every Databrary staff member, *Investigator*, and *Affiliate Investigator* is expected to embrace and enact the principle of informed consent. This means that individuals who are recorded on video, audio or other means have the right to determine whether their data may be shared, and if shared, with whom.
- *Investigators* must accurately record the *sharing permission* preferences expressed by users. *Investigators* must transfer information about individuals' sharing preferences accurately to Databrary.
- Databrary must label files accurately. *Investigators* who browse or download data must respect the *sharing preferences* expressed by participants. Databrary staff and *Investigators* are expected to embrace and enact principles of participant confidentiality. This means that all individuals who are recorded on video, audio or other means have the right to have their identities kept confidential.
- *Investigators* must not upload or share files that contain *personally identifying information* beyond that contained in *recordings*. *Investigators* must not create new or modify existing data files in ways that increase the risk that a participant's confidentiality may be violated.
- If an individual participant's identity is determined inadvertently, that information must not be shared with anyone, including members of the *Investigator's* research team. Information about the individual's identity may not be recorded in any form.
- Databrary staff, *Investigators*, and *Affiliate Investigators* are expected to monitor the use of Databrary for violations of the principle of informed consent by others and to report any concerns about possible violations to the Databrary Ethics Committee at (ethics@databrary.org) or via the Databrary website (<http://databrary.org/contact/>)
- In selecting excerpts of data for public viewing, *Investigators* must exercise professional judgment in order to minimize the chance that an individual participant could be harmed.
- In selecting data sets to share with Databrary, *Investigators* must exercise professional judgment to avoid sharing data of an offensive or prurient nature. Databrary reserves the right to remove data or data sets that are deemed to be of an inappropriate nature.

Databrary Ethics Committee

Databrary will form an Ethics Committee to monitor the project, review and modify ethics policies, and to adjudicate ethics complaints. The Ethics Committee will consist of five members of Databrary's Advisory Board, staff representatives from the NYU and PSU compliance offices, three members of the community of Investigators, and the Databrary Staff. The committee will meet via conference call or webinar quarterly.

4. Related Policies and Procedures

Databrary Investigator/Affiliate Investigator Agreement (Appendix A)

Databrary Permission to Share Recordings of Children Under 12 (Appendix B)

Databrary Permission to Share Self-Reported Health-Related Information About Adults
(Appendix C)

Databrary Best Practices for Data Security (Appendix D)

Databrary Bill of Rights (Appendix E)

5. Definitions of Terms

People

Investigator. An individual eligible for principal investigator status at an Institution who has received authorization from Databrary to view, download, and contribute data.

Data Contributor. An Investigator who contributes Data to Databrary.

Affiliate Investigator. An individual who has been approved for access to Databrary under the sponsorship and supervision of an Investigator.

Research Staff. Persons authorized by the Investigator's Institution, excluding the Investigator or any Affiliate Investigator under the Investigator's supervision, who will have access to Data. Research Staff include project staff or students conducting dissertation or thesis research.

Depicted Individual. A person depicted in Recordings.

Research Participant. A person observed for purposes of research.

Third-Party User. An individual who wishes to obtain access to Databrary, but has not yet been granted an Investigator or Affiliate Investigator account.

Private Person. Any individual and any private (i.e., non-government) partnership, corporation, association, organization, or entity, including family, household, school, neighborhood, health service, or institution.

Representative of the Institution. A person authorized to enter into contractual agreements on behalf of an Investigator's Institution.

Minor. A person under the age of 18

Entities

Research Supervision Entity. An Institutional Review Board or equivalent authority charged with supervising research at an Institution.

Institution: The university or research organization at which the Investigator will conduct scientific activities, including research using Data.

Documents

Databrary Authorized/Affiliate Investigator Agreement: Written or electronic agreement that sets out the rights and responsibilities of Authorized and Affiliate Investigators in their use of Databrary resources.

Permission/Assent to Share Recordings: Written or electronic documentation that an adult or minor Depicted Individual has given permission to allow Recordings to be shared.

Permission/Assent to Share: Written or electronic documentation that an adult Depicted Individual has given permission to allow Identifiable Data to be shared.

Permission/Assent to Excerpt: Written or electronic permission or assent given by Depicted Individuals to allow Investigators to show or distribute Excerpts from Recordings.

Permission to Share Self-Reported Health-Related Information: Written or electronic permission or assent to allow De-identified Self-Reported Health-Related Information to be shared with Databrary.

Data-types

Identifiable Data: Collections of Personally Identifying Information that might be used singly or in combination to determine the identity of Research Participants or other individuals depicted in Recordings.

Non-Identifiable Data: Collections of information that do not contain Identifiable Data.

De-identified Data: Collections of information from which Personally Identifying Information has been removed or altered in such a way as to prevent the identification of individual persons.

Recordings: Video or audio recordings or still images.

Personally Identifying Information:

- Full name
- National identification number (e.g., Social Security number)
- Internet Protocol address
- Vehicle registration plate number
- Driver's license number
- Health certificate or insurance number
- Fingerprints, or handwriting
- Credit card or financial account or access numbers
- Digital identity (e.g., Facebook, Twitter, LinkedIn, email account names)
- Date of birth

- Birthplace
- Address
- Telephone number
- Faces and voices.

See also: HIPAA identifiers(http://privacyruleandresearch.nih.gov/pr_08.asp)

Shareable Identifiable Data: Identifiable data for which a Depicted Individual has granted Permission or Assent to Share Recordings or Data.

Metadata: Information that describes how, where, why, and by whom Identifiable Data, De-Identified Data or Non-Identifiable Data were collected.

Self-Reported Health-Related Information: Information about an individual or minor child's health status that is reported by the individual or an individual's parent or legal guardian, not by a health-care provider.

Data: Any Identifiable Data, De-Identified Data, Non-Identifiable Data or Metadata.

Excerpts: An excerpt is a selection from a larger video or audio recording that illustrates a particular point or demonstrates a finding. It is typically no more than a few seconds or minutes in length or may be a still image. Investigators or Affiliate Investigators may select segments of a recording as an excerpt for display in public settings if the Depicted Individuals have granted sharing permission that includes Public Showing.

Digital Files: Video or audio recordings or photographs stored in an electronic form that may be readily shared with other people who are not Research Staff over electronic networks like the Internet.

Actions

Sharing Permission: Specific rights for sharing and public release granted by Depicted Individuals in a Permission to Share Data document. Investigator

Promise of Confidentiality: A promise to a respondent or Research Participant that the information the respondent provides will not be disseminated without the permission of the respondent; that the fact that the respondent participated in the study will not be disclosed; and that disseminated information will include no linkages to the identity of the respondent. Such a promise encompasses traditional notions of both confidentiality and anonymity. Names and other identifying information regarding respondents, proxies, or other persons on whom the respondent or proxy provides information, are presumed to be confidential.

Deductive Disclosure: The discerning of an individual's identity or confidential information through the use of known characteristics of that individual. Disclosure risk is present if an unacceptably narrow estimation of an individual's confidential information is possible or if determining the exact attributes of the individual is possible with a high level of confidence.

Public Showing: Playing an audio or video segment or showing a photograph to an audience that is not limited to Research Staff.

Research: A systematic investigation, including research development, testing and evaluation, designed to develop or contribute to generalizable knowledge. 45 CFR 46.102(<http://www.hhs.gov/ohrp/humansubjects/guidance/45cfr46.html>46.102)

6. Version History

2012-12-31	Rick Gilmore drafted.
2012-01-02	Rick Gilmore edited.
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2013-04-09	Rick Gilmore edited

Appendix A Databrary Investigator Agreement

1. Overview

Databrary is a data library intended to foster sharing of information between researchers. Databrary contains *De-Identified Data*, *Non-Identifiable Data*, and *Metadata*. Databrary also contains *Identifiable Data* – video/audio recordings and photographic images Databrary calls *Recordings* – and other sensitive materials, such as *Self-Reported Health-Related Information*, only some of which are open to the public. Accordingly, Databrary requires prior authorization for access.

With authorization, I can: browse, search, and download *Data* from Databrary for non-research purposes; use Databrary for *Research* purposes (with appropriate approval from the *Research Supervision Entity* at my *Institution*); and contribute *Data*, subject to the *Sharing Permissions* granted by individuals depicted in *Recordings* or *Research Participants*. This document sets out my rights and responsibilities and those of Databrary. Definitions of terms used in this document are listed here (<https://github.com/databrary/policies/blob/master/definitions.md>).

2. Responsibilities of Databrary Investigators and Affiliate Investigators

I understand that in order for me to have access, I must apply to Databrary for *Investigator* or *Affiliate Investigator* status. If I am eligible to be a principal investigator (PI) (e.g., professor at a university) at my *Institution*, I may apply to be an *Investigator*. If I am not eligible to be an *Investigator*, I may apply to be an *Affiliate Investigator* if an *Investigator* agrees to sponsor my application and supervise my use. Signing this agreement is one part of the application procedure. If approved for *Investigator* or *Affiliate Investigator* status I agree to keep current my contact information and other information reported in Databrary. I agree to renew my status with Databrary every year or whenever I change institutions.

I agree to keep officials at my *Institution* who supervise research informed about my use of Databrary by providing accurate contact information about a designated representative from the *Research Supervision Entity* at my *Institution*. I agree that Databrary may share information about my use of the data library with my *Institution*. If I conduct *Research* with materials shared in Databrary, I will consult with the appropriate officials with my *Institution's Research Supervision Entity* (e.g., IRB) and secure whatever approvals are required.

I agree to complete training in research ethics involving human participants. The training must be offered by an official research ethics training entity and acceptable to my *Institution's Research Supervision Entity*. I agree to keep current my human participants training certification.

I agree to follow best practices in data security (<https://github.com/databrary/policies/blob/master/best-practices.md>) for any information I draw from Databrary or collect to contribute to Databrary.

I agree to uphold the Databrary Bill of Rights (<https://github.com/databrary/policies/blob/master/bill-of-rights.md>).

In contributing *Data*, I assert that I have rights to the *Data* I contribute; no other entity or individual has ownership rights that prevent me from contributing *Data* to Databrary.

I agree to cite Databrary resources I use in my scholarly work. Databrary will provide a recommended citation format.

3. Privacy of research participants

I promise to treat *Data* taken from or contributed to Databrary with the same high standards of care that I treat *Data* collected in my own laboratory.

Recordings contain *Personally Identifying Information* about *Depicted Individuals* -- *Research Participants* and other individuals involved in a study who are recorded or photographed. Images and/or voices may be visible or heard. Names may be spoken out loud. Images and voices of visitors or other people who are not research participants may be recorded. If a study takes place in a home or other setting, aspects of that home or setting may be recorded. Thus, individuals or locations can be identified from *Recordings*. Any intentional identification of *Research Participants* violates the *Promise of Confidentiality* given to them. Identification of other individuals depicted in *Recordings* violates their privacy, as well.

To avoid these breaches, when browsing and downloading *Data*, I agree to:

- protect the identity of all individuals with information in Databrary, especially *Depicted Individuals*;
- keep *Data* secure on computers with access limited to researchers whom I have trained and who are under my supervision or the supervision of the *Investigator* who sponsors me;
- respect the *Level of Sharing Permission* given by *Depicted Individuals*.

When contributing data, I agree to:

- remove names and other *Personally Identifying Information* from all files that are not *Recordings*;
- seek, secure, and maintain permission to conduct research from the *Research Supervision Entity* that governs research at my *Institution* and receive approval to ask *Depicted Individuals* or their legal parent or guardians for their permission to share *Recordings* or *Self-Reported Health-Related Information* in Databrary;

- Ensure that *Depicted Individuals* sign copies of the appropriate *Databrary Permission (or Assent) To Share* documents or have granted equivalent permission through other means;
- Faithfully represent to Databrary the level of *Sharing Permission* given by *Depicted Individuals*.

4. Limitations on Sharing Excerpts of Data with the Public

I will not use Databrary for commercial purposes. I agree not to share *Data* with the general public or with researchers who are not authorized by Databrary.

I understand that *Depicted Individuals* may give different levels of permission (or assent) to share *Recordings* or *Self-Reported Health Information* with Databrary.

Depicted Individuals may refuse to give permission to share *Recordings* or *Self-Reported Health-Related Information*. In this case, Databrary may store *Recordings* or *Self-Reported Health-Related Information* but not share them beyond the set of Investigators who are part of the *Data Contributor's* approved research team under an existing research protocol. The full responsibility for identifying who constitutes the set of researchers allowed access is the *Data Contributor's*.

Alternatively, *Depicted Individuals* may give permission for their *Recordings* or *Self-Reported Health-Related Information* to be shared. In this case, *Recordings* or *Self-Reported Health-Related Information* may be shared with other Databrary *Authorized or Affiliate Investigators* and viewed, downloaded, and analyzed by *Research Staff* under the supervision of *Investigators*. Viewed, downloaded, and analyzed Data retrieved from Databrary must be handled according to best practices in data security. No *Recordings* may be shown in public.

Additionally, *Depicted Individuals* may grant permission to show and distribute *Excerpts* to the public. Excerpts selected by an *Investigator* may be presented in public settings—in classrooms, at scientific or technical meetings—and may be published in the media, in textbooks, scientific publications, or on the Internet as long as no *Personally Identifying Information* about a *Depicted Person* is included with the excerpt.

I promise to exercise professional judgment and uphold ethical principles in determining which *Excerpts* to show and to what audiences.

If there is ambiguity about whether a *Depicted Individual* has granted *Permission To Share* or *Permission to Excerpt*, those *Recordings* or *Self-Reported Health-Related Information* must not be shared, viewed or distributed. Any problems or questions should be addressed to Databrary (ethics@databrary.org).

I promise to cite all *Excerpts* following Databrary citation practices.

5. Rights of Contributors

If I contribute *Data* to Databrary, I can decide whether to share, when to share, and with whom I want to share. I may share only among members of my IRB protocol or all authorized Databrary researchers.

I understand that Databrary will store my data regardless of what I decide, and will make the data available according to my wishes and the sharing permission level granted by *Depicted Individuals* or *Research Participants*. However, Databrary reserves the right to limit the amount or kind of *Data* stored without charge to contributors or the level of service provided to contributors and other researchers. *Data* that can be and are shared with Databrary Investigators and Affiliate Investigators will have priority for storage and processing resources.

Investigators may change or revoke access to *Data* at any time. But, I understand that Databrary cannot guarantee that *Data* previously shared can be retrieved.

Databrary encourages researchers to share the products of their scientific work, including *Metadata*, lab notebooks, analysis code, figures, manuscripts, and other materials as broadly as possible.

6. Databrary Rights and Responsibilities

I grant Databrary permission to:

- redistribute the *Data* in Databrary in accordance with my wishes and the permissions chosen by *Depicted Individuals*;
- promote and advertise the *Data*;
- describe, catalog, validate and document *Data*;
- store, translate, copy or re-format the *Data* in any way to ensure its future preservation and accessibility;
- incorporate *Metadata* or documentation;
- revoke access to *Data* that pose a risk of violating confidentiality;
- revoke access to Databrary for ethics violations.

7. Violations

If Databrary determines that I have violated terms of this agreement, Databrary may remove the data in question or deny access to Databrary, temporarily or permanently. The violation may be reported to the Research Integrity Officer, Institutional Review Board, or Human Subjects Review Committee of my *Institution*.

If denied access, I may request a formal inquiry and review by the Databrary Ethics Committee.

8. Disclaimer

I understand that Databrary, New York University, The Pennsylvania State University, and the relevant funding agencies bear no responsibility for the use of Databrary or the information contained within it. I indemnify and render harmless Databrary, New York University, and the Pennsylvania State University against any actions at law or in equity or in similar courts of any jurisdictions arising from violations of any of the points in this agreement.

9. Signature

My signature signifies:

- that I have read, understood, and agree to the provisions in this document;
- that I have read and understood the Databrary *Permission to Share* documents;

Signature:

Date:

Printed Name

Appendix B
Databrary
Permission to Share Recordings of
Children Under 12

version 2013-03-07

Overview

This form requests permission to include video/audio recordings or still images of my child in a secure data library on the Internet (Databrary.org). The library allows authorized researchers to share data. Data sharing will help researchers to learn more and will lead to faster progress in our understanding of human development.

Giving permission to share is entirely separate from giving consent to participate in a research study. I do not have to give permission to share my child's video/audio recordings or still images in the library. My choice will not affect payment if offered for participation in this or future studies.

What will be shared?

With my permission, video/audio recordings or still images of my child will be included in the library.

Will the information be private?

My child's information will be kept private. Researchers will identify all of my child's information by a code number, not by name. No information will be included in the data library about how to contact me, my child, or my family.

My child's image and/or voice may be seen or heard on the video/audio recordings or still images. My child's name may be spoken aloud. The images and/or voices of me, visitors or other members of my family may also be seen or heard. If the study takes place in my home, aspects of my home may be seen or heard. Someone might be able to identify me, my child, or other people unintentionally. But, the authorized researchers with access to the data library promise to keep private the identities of all people in the video/audio recordings or still images.

Who can access information in the library?

Only authorized researchers have access to information in the library. Researchers who are granted access to the library must sign a contract that requires them to maintain confidentiality and not to use the information for commercial purposes. Researchers promise to treat information in the library with the same high standards of care that they treat information collected in their own laboratories.

How long will the information remain in the library?

Information in the library will be preserved forever in a secure location. Databrary does not intend to erase the information. Databrary intends to store the information so that future researchers may be able to use it.

If in the future I no longer wish to have my child's video/audio recordings or still images stored in the library, I will contact Databrary at ethics@databrary.org.

Permissions

Permission to share with authorized researchers

- ☐ I give permission to share my child's video/audio recordings or still images with authorized researchers in a secure data library.

Permission to share excerpts with the public

- ☐ I give permission for authorized researchers to select excerpts from my child's video/audio recordings or still images and to share excerpts with the public for scientific and/or educational purposes.

I trust that authorized researchers will use professional judgment and uphold ethical principles in determining which excerpts to share.

Payment

My child will not be paid for the use of information in the library.

Signatures

My signature indicates that I understand this document and agree to what it says.

My child's name:

Parent/Guardian's Name:

Parent/Guardian's Signature:

Date:

Researcher obtaining permission:

Date:

I will receive a copy of this form for my records. If I have any questions about the data-sharing library, I will send email to ethics@databrary.org. For questions about my rights as a research participant, I may contact [APPROPRIATE CONTACT FOR LOCAL INSTITUTION].

Appendix C
Databrary
Permission to Share
Self-Reported Health-Related Information About
Adults
version 2013-03-07

Overview

This form requests permission to include self-reported health-related information about me in a secure data library on the Internet (Databrary.org). The library allows authorized researchers to share data. Data sharing will help researchers to learn more and will lead to faster progress in our understanding of human development.

Giving permission to share is entirely separate from giving consent to participate in a research study. I do not have to give permission to share self-reported health-related information about me in the library. My choice will not affect payment if offered for participation in this or future studies.

What will be shared?

With my permission, self-reported health-related information about me will be included in the library.

Will the information be private?

My information will be kept private. Researchers will identify all of my information by a code number, not by name. No information will be included in the data library about how to contact me or my family.

If I also agree to share video/audio recordings or still images, my image and/or voice may be seen or heard on the video/audio recordings or still images. My name may be spoken aloud. The images and/or voices of visitors or other members of my family may also be seen or heard. If the study takes place in my home, aspects of my home may be seen or heard. Someone might be able to identify me or other people unintentionally. But, the authorized researchers with access to the data library promise to keep private the identities of all people in the video/audio recordings or still images.

Who can access information in the library?

Only authorized researchers have access to information in the library. Researchers who are granted access to the library must sign a contract that requires them to maintain confidentiality and not to use the information for commercial purposes. Researchers promise to treat

information in the library with the same high standards of care that they treat information collected in their own laboratories.

How long will the information remain in the library?

Information in the library will be preserved forever in a secure location. Databrary does not intend to erase the information. Databrary intends to store the information so that future researchers may be able to use it.

If in the future I no longer wish to have self-reported health-related information about me stored in the library, I will contact Databrary at ethics@databrary.org.

Permissions

Permission to share with authorized researchers

☐ I give permission to share self-reported health-related information about me with authorized researchers in a secure data library.

Payment

I will not be paid for the use of information in the library.

Signatures

My signature indicates that I understand this document and agree to what it says.

My name:

My signature:

Date:

Researcher obtaining permission:

Date:

I will receive a copy of this form for my records. If I have any questions about the data-sharing library, I will send email to ethics@databrary.org. For questions about my rights as a research participant, I may contact [APPROPRIATE CONTACT FOR LOCAL INSTITUTION].

Appendix D

Databrary

Best Practices for Data Security

<https://github.com/databrary/policies/blob/master/best-practices.md>

Data security evolves. This document represents a set of best practices that Databrary recommends all Investigators and Affiliate Investigators adopt:

Personally Identifying Information (PII)

PII consists of the following:

- Full name
 - National identification number (e.g., Social Security number)
 - Internet Protocol (IP) address
 - Vehicle registration plate number
 - Driver's license number
 - Health certificate or insurance number
 - Fingerprints, or handwriting
 - Credit card or financial account or access numbers
 - Digital identity (e.g., Facebook, Twitter, LinkedIn, email account names)
 - Date of birth
 - Birthplace
 - Address
 - Telephone number
 - And, faces and voices.
- Special care must be taken with PII.
- Personally identifying information (PII) should be removed from text/flat files before it is shared with Databrary. This is called *de-identifying* data.
 - If you collect PII on paper, lock the paper records in file cabinets.
 - PII contained in audio or video recordings or photographs need not be removed before sharing with Databrary. That is, recordings or photographs need not be de-identified.
 - Participants should be identified by a code that does not include PII -- names, initials, birthdates, phone or ID numbers, etc.

Password Generation

- Use a unique password for Databrary.
- Do not share your password with others.

- Choose a password that has capital and lower case letters, special characters and numbers.
- Do not write your password down.
- Do not store your password in an unencrypted file on your computer.
- Change your password at least every 6 months.

Computers Used to Access and Download Databrary files

- Computers should have individual-level, password-protected user accounts.
- Do not share account IDs or passwords
- User account passwords should differ from those used for Databrary (see above).
- Laptops may be stolen or lost, so it may be wise to enable system-wide file encryption.
- Set your computer to activate a password protected screen saver after 3 minutes of inactivity.
- Set your computer to automatically logout after 5 minutes of inactivity.
- Databrary logs the Internet Protocol (IP) addresses of computers that access the system, so you may wish to choose a specific computer or computers to use to access Databrary.

Data File Storage and Backup

- If data are stored on laboratory computers, those computers should be regularly (daily or weekly) backed up to a secure location offsite.
- More than one backup copy should exist. All backups should be secure.
- You may take screen shots, but if the screen shots contain PII, they must be stored securely.

Physical features of laboratory or office

- Laboratories or offices that house computers where data are stored should be locked whenever the rooms are unoccupied.
- Be aware of whether the layout of your laboratory or office inadvertently allows other individuals to see your computer screen or reflections from your computer screen through doors or windows.

Appendix E Databrary Bill of Rights

<https://github.com/databrary/policies/blob/master/bill-of-rights.md>

As a person who shares information with Databrary, you have the right to:

- Be free of pressure from anyone else when deciding if you wish to share information
- Make up your mind about sharing information without being rushed
- Have the decision to share information with Databrary be separate from the decision to participate in research
- Be told what information is being shared with Databrary
- Be told if there will be no direct benefit to you
- Ask questions about Databrary at any time before, during or after you participate in a study or agree to share information
- Refuse to share data without penalty
- Ask to have your data removed from sharing on Databrary, without any penalty
- Receive a copy of your Permission to Share form for you to keep
- Be assured that your identity will be kept in confidence by Databrary and its authorized researchers.

If I have any questions or concerns I can contact Databrary staff by email at ethics@databrary.org. I can also ask the staff from the study I participated in for help.

Appendix F Databrary Access Flow Schematic

red="no", green="yes"

