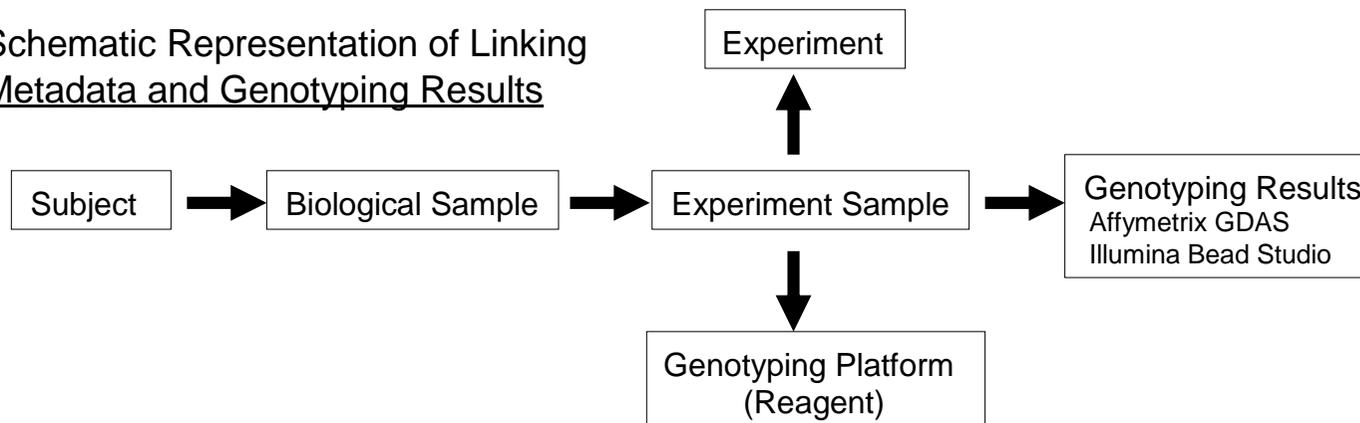


The following are criteria for inclusion of a subject in a linkage file:

1. The **subject** is linked to a single genotyping **experiment**. (The subject may also be linked to other non-genotyping experiments.)
2. The **subject** is linked to a single **experiment sample** that is linked to a genotyping experiment. (The subject may also be linked to other experiment samples that are linked to non-genotyping experiments.)
3. The **experiment sample** in item 2 is linked to **genotyping results** that are in the Affymetrix GDAS or Illumina Bead Studio format. (The result format is set in the experiment samples metadata file.)
4. The **experiment sample** in item 2 is linked to a **genotyping platform reagent** whose annotation (e.g. SNP name, allele values, and location) is loaded into ImmPort.

Schematic Representation of Linking Metadata and Genotyping Results



Please contact the Help Desk for more information:

helpdesk@import.org

Error Messages

There are two general types of issues for failing to meet linkage file generation criteria.

1. The **subject** is linked to multiple entities in at least one of the following ways:
2. The subject is not linked to required data elements.

The following error types are identified for **subjects** that are **linked to multiple entities**:

Message	Comment	Suggested Resolution
Multiple experiments with geno-typing Results	The subject is linked to more than one experiment that is designated as a genotyping experiment.	Review and edit the metadata for the subject to remove links to extra genotyping experiments. You may save a list from the table and use the list in Advanced Search or Data Management to search for the subject. Contact helpdesk@import.org .
Multiple experiment samples with geno-typing Results	The subject is linked to more than one experiment sample that is linked to genotyping results.	Review and edit the metadata for the subject to remove links to extra genotyping experiment samples. You may save a list from the table and use the list in Advanced Search or Data Management to search for the subject. Contact helpdesk@import.org .
Multiple biological samples with geno-typing Results	The subject is linked to more than one biological sample that is linked to an experiment sample with genotyping results.	Review and edit the metadata for the subject to remove links to extra genotyping experiment samples. You may save a list from the table and use the list in Advanced Search or Data Management to search for the subject. Contact helpdesk@import.org .
Multiple geno-typing assay Results	There are multiple genotyping results linked to a subject.	Review and edit the metadata for the subject to remove links to extra genotyping experiment samples. You may save a list from the table and use the list in Advanced Search or Data Management to search for the subject. Contact helpdesk@import.org .
Multiple geno-typing assay platforms with geno-typing Results	There are more than one genotyping reagent platforms linked to the experiment sample.	Review and edit the metadata for the experiment samples to remove links to genotyping reagents. You may save a list from the table and use the list in Advanced Search or Data Management to search for the experiment samples. Contact helpdesk@import.org .

Error Messages (Continued)

The following error types are identified for **subjects** that are **not linked to required data**:

Message	Comment	Suggested Resolution
Unavailable Subject Org Id (Unavailable means either 1) data is not accessible by the user 2) data is undefined)	The subject is not defined in ImmPort for the projects selected by the user.	Review the project selection and add additional projects if available. The subjects may be in a project to which you are not associated. Contact helpdesk@import.org .
Missing Biological Samples	The subject is missing a link to a biological sample. Subjects are linked to genotyping results via biological samples and experiment samples.	Review and edit the metadata for the subject to add links to biological samples. You may save a list from the table and use the list in Advanced Search or Data Management to search for the subject. Contact helpdesk@import.org .
Missing Experiment Samples	The subject is missing an experiment sample. The experiment sample links together genotyping results, assay platform, biological samples, and experiments.	Review and edit the metadata for the subject to add links to experiment samples linked to genotyping results. You may save a list from the table and use the list in Advanced Search or Data Management to search for the subject. Contact helpdesk@import.org .
Unavailable Experiments	The subject is not linked to a genotyping experiment. The experiment defines the assay measurement type as genotyping.	Review and edit the metadata for the subject to add links to the genotyping experiment. You may save a list from the table and use the list in Advanced Search or Data Management to search for the subject. Contact helpdesk@import.org .
Experiment Data is available Unavailable Geno-Typing Reagent	There is no genotyping reagent linked to the genotyping experiment sample.	Review and edit the metadata for the experiment samples to add links to a genotyping reagent. You may save a list from the table and use the list in Advanced Search or Data Management to search for the experiment samples . Contact helpdesk@import.org .
Experiment Data is available Missing Geno-Typing Results	The subject is linked with an experiment sample linked to a genotyping reagent, but the experiment sample is not linked to genotyping results.	Review and edit the metadata for the genotyping experiment and experiment samples. You may save a list from the table and use the list in Advanced Search or Data Management to search for the experiment and experiment samples . Contact helpdesk@import.org .