

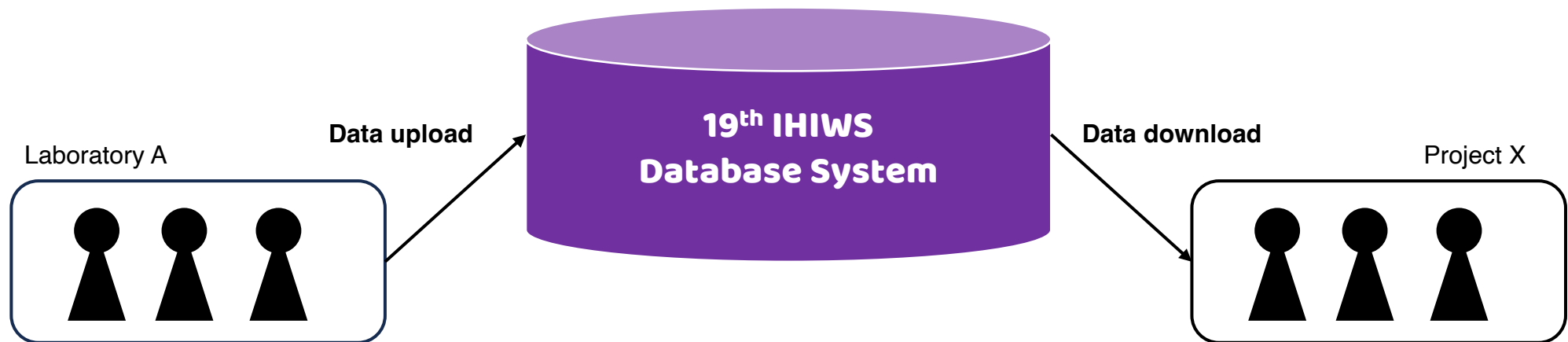
October 3, 2025

Introduction to 19th IHIWS database system

19th IHIWS database system development team

What it is – at a glance

The 19th International HLA & Immunogenetics Workshop (IHIWS) has built a new database system that streamlines data sharing. The model is intentionally simple: **laboratories upload** their data; **projects download** from laboratories they are linked to. Linkages are created (and can be removed) by the laboratory principal investigator (PI), so access is explicit, auditable, and under laboratory control.



Key features for laboratories:

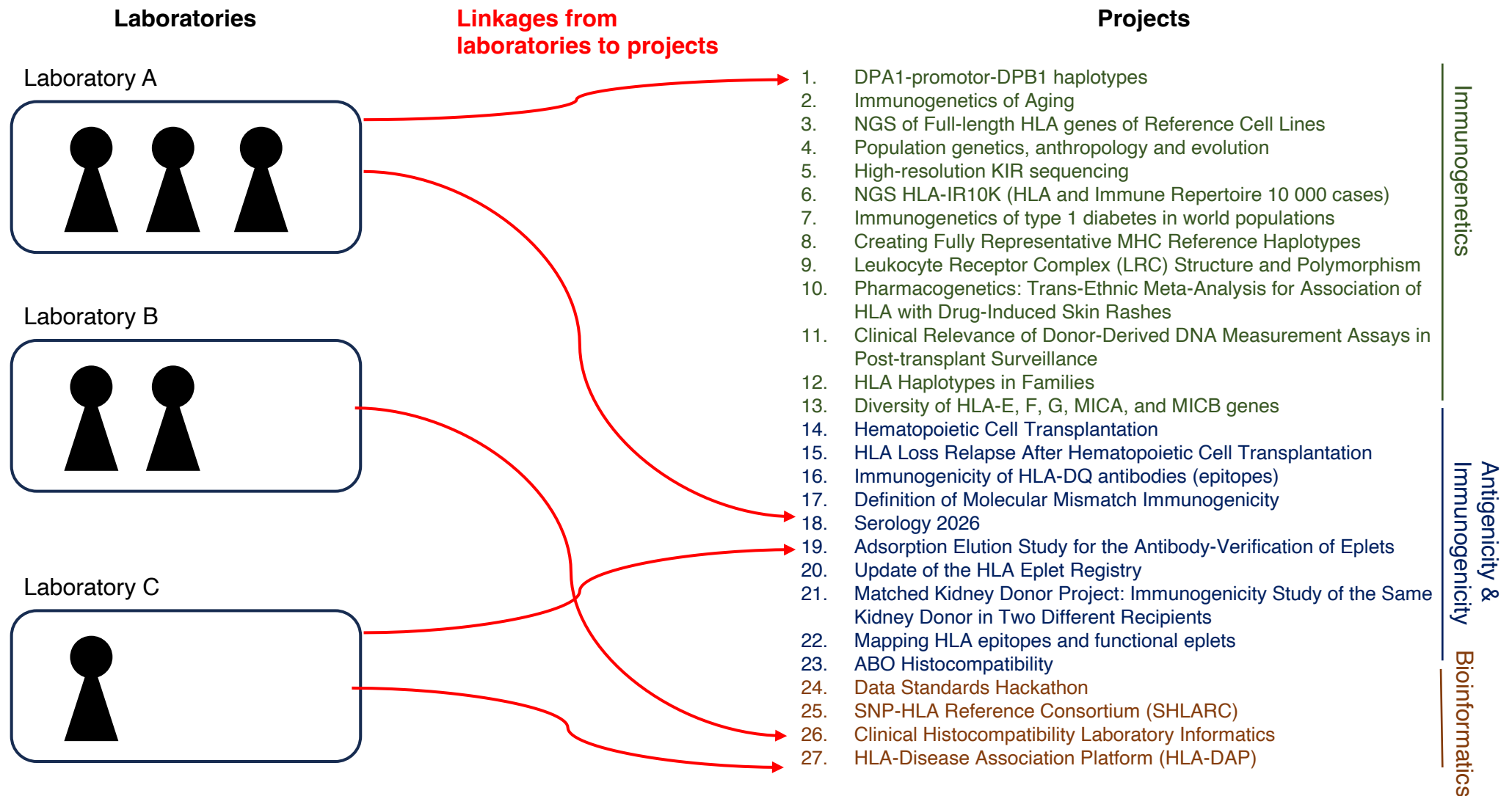
- Manage laboratory members
- Manage linkage to projects
- Upload and manage HLA genotype data **HML**
- Upload and manage antibody testing data
One Lambda **Werfen**
- Upload and manage sample metadata **Excel**
- Upload and manage subject metadata **Excel**

Key features for projects:

- Download HLA genotype data **HML**
- Download antibody testing data **HAML**
- Download sample metadata
CSV **Excel**
- Download subject metadata
CSV **Excel**

Data Linkage from Laboratories to Projects

PIs decide which IHIWS projects their laboratory will provide data to by creating a linkage in the system.



Data Linkage from Laboratories to Projects

- Project leaders gain download access to all data uploaded to the IHIWS database by the linked laboratory, including existing and future uploads, for that project across the shared datasets (HLA genotypes, antibody testing, and associated sample/subject metadata).
- Sharing operates at the laboratory level (not per file).
- If laboratory PIs need different sharing per project, please contact the database team (ihiws19@genome-analytics.co.jp); we can provision additional LABCODEs so you can manage distinct “laboratories” per project. This keeps roles clear: laboratories contribute; projects integrate.

Laboratory PIs and Members

The database administrator creates the laboratory PI account according to IHIWS registration information.

To delegate some laboratory data management tasks to another researcher, the Laboratory PI can add them to the system as a Laboratory member.

Steps:

1. The Laboratory PI creates a new **secret registration token** (expires within 90 days)
2. The Laboratory PI provides the secret registration token to the researcher they wish to add.
3. The researcher registers as a new user on the IHIWS Database system. By using the secret registration token, they will be added as a member of that specific laboratory.

Laboratory PIs and Members

Laboratory PIs and Laboratory Members have different levels of privileges.

	PI	Member (non-PI)
Upload data and metadata	○	○
View data and metadata	○	○
Delete data and metadata	○	○
Manage linkage to projects	○	×
Manage a secret registration token	○	×

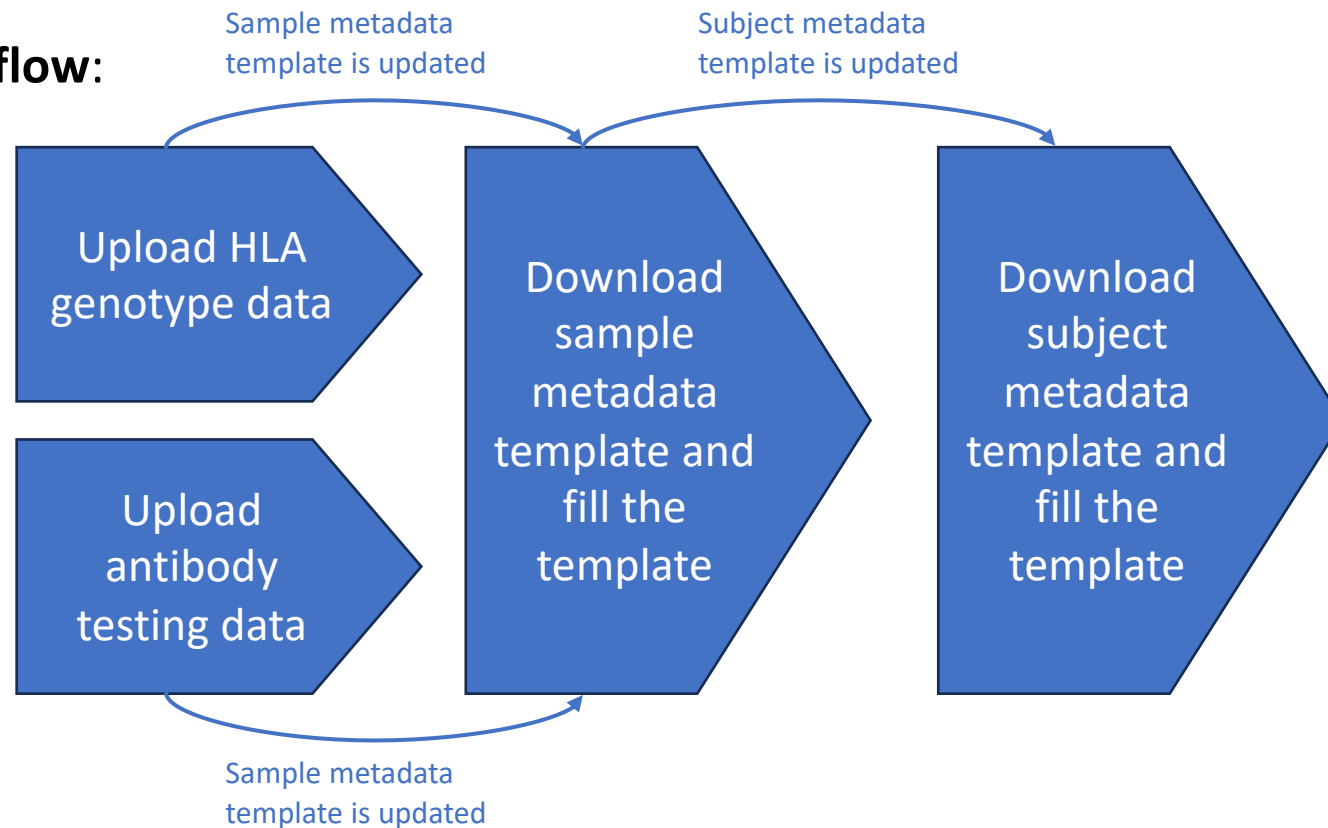
A Laboratory PI can change the privilege for Laboratory Members.

How to get started

Once your credentials arrive:

1. Log in with the initial password and set a new password.
2. Upload your datasets (e.g., HLA genotypes; antibody testing; sample/subject metadata).
3. Create data linkage to relevant IHIWS projects.

Data upload flow:



User Guides

User Guides for Laboratory Features (for PIs and Members):

1. First Login (for Laboratory PI)
2. Invite Laboratory Members (for Laboratory PI)
3. Registration (for Laboratory Member)
4. Change Laboratory Member Privilege (for Laboratory PI)
5. Data Linkage to Projects (for Laboratory PI)
6. Upload HLA Genotype Data (for Laboratory PI and Member)
7. Upload Antibody Testing Data (for Laboratory PI and Member)
8. Upload Sample Metadata (for Laboratory PI and Member)
9. Upload Subject Metadata (for Laboratory PI and Member)

User Guides for Project Features (for Project Leaders):

1. Show Participating Laboratories
2. Download HLA Genotype Data
3. Download Antibody Testing Data
4. Download Sample Metadata
5. Download Subject Metadata