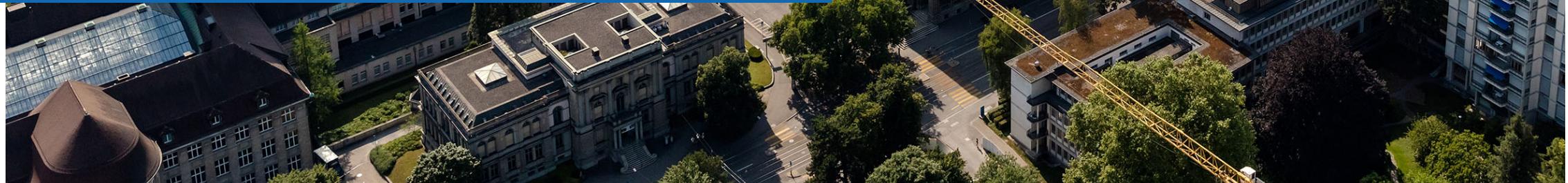




# openBIS admin training

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24.06.2021



# Overview of training

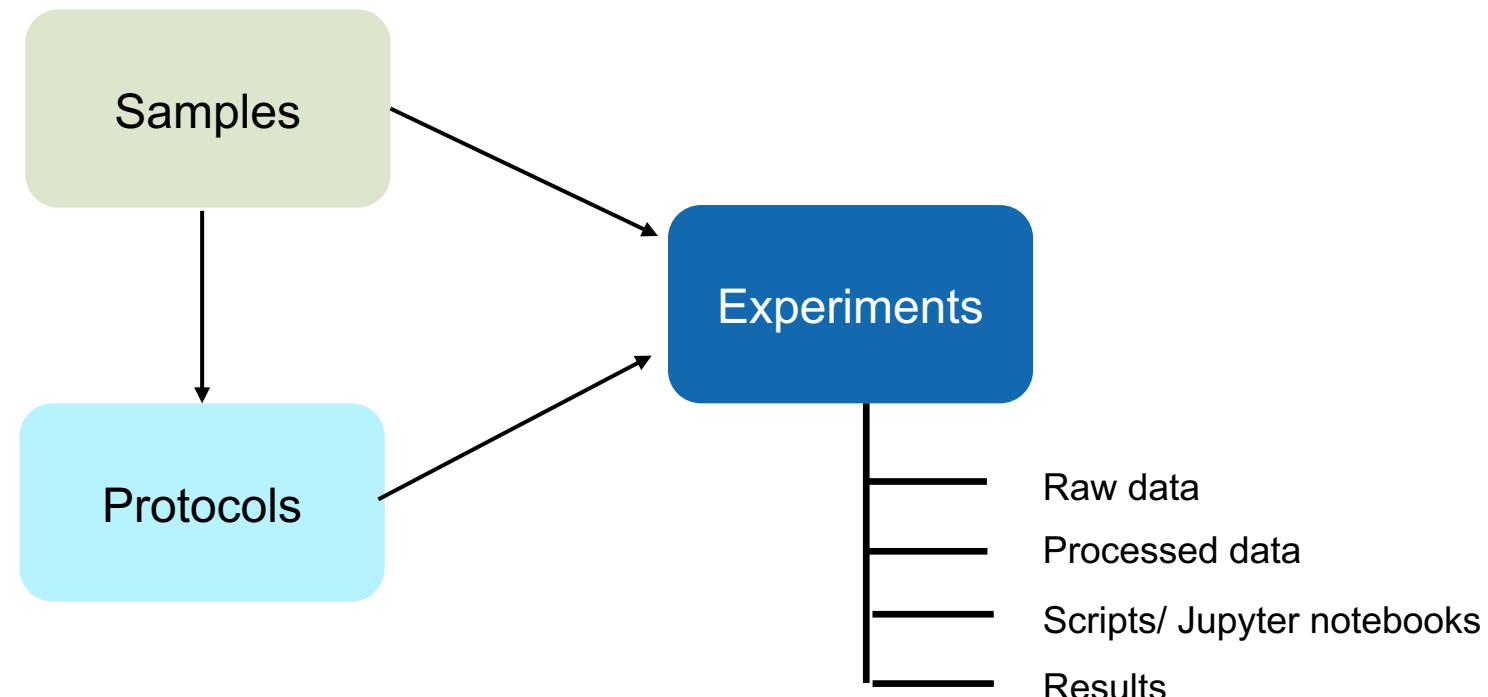
- Introduction to openBIS basic concepts
- Tutorial:
  - Introduction to the new openBIS admin User Interface (UI):
    - Registration of openBIS types
    - Overview of property types
  - Overview of ELN Settings
  - Users management
  - Space management

# Basic openBIS concepts

# How to use the openBIS Inventory & Lab Notebook

**Inventory**  
*Shared by all lab members.*

**Lab Notebook**  
*Personal space. Can be shared with colleagues/collaborators.*



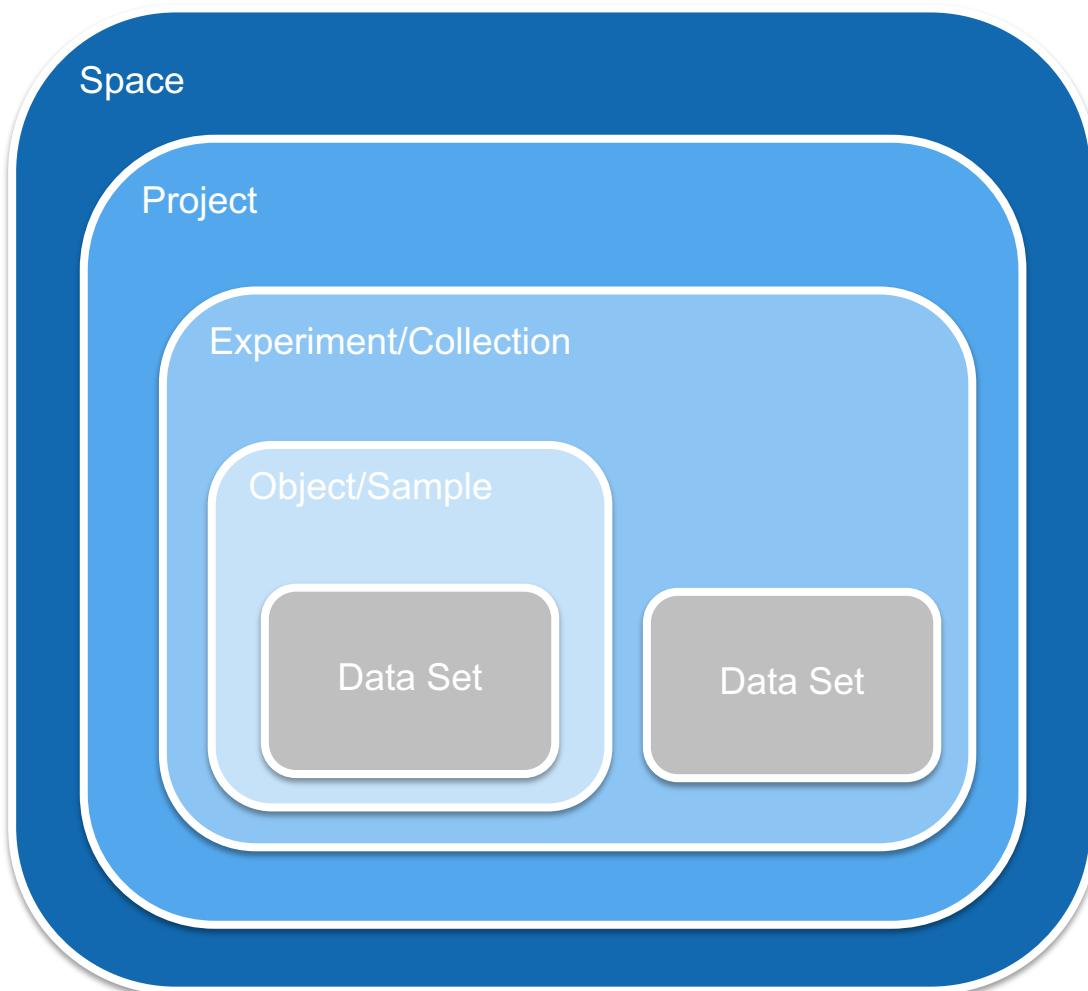
# openBIS Inventory

- The default installation has two main folders in the Inventory:
  - **Materials:** all samples and materials can be stored in collections in this folder
  - **Methods:** all lab protocols (if used!) can be stored in collections in this folder

# Organization of openBIS Lab Notebook

- In the Lab Notebook part of openBIS, usually each user has a **personal Space** where to organize **Projects** and **Experiments**
- An openBIS **Experiment** is a specific scientific question. The single attempt to answer this question can be modelled as **Experimental Steps**.
- **Experimental Steps** can be linked to Samples, Protocols, other Experimental Steps
- Data (raw, processed, analyzed, final results) can be attached to Experiments or Experimental steps in **Datasets**

# openBIS data structure



- 1. Folder (access control)**
- 2. Folder (access control)**
- 3. Folder with user-defined properties.** There can be several types of Experiment/Collection, each defined by different properties. Example: *Microscopy experiment, PCR experiment etc.*
- 4. Entity with user-defined properties.** There can be several types of Objects/Samples, each defined by different properties. Examples: *Antibody, Chemical, Sensor, Chip, General Protocol, Experimental Step...*
- 5. Folder for storing data files with user-defined properties.** There can be several types of Data Sets, each defined by different properties.

# openBIS types

- **Experiments, Objects and Datasets have types.**
- Types are defined by metadata associated with them, i.e. different properties are usually associated with different types

## Object Type **Chemical**

1. Name
2. Article number
3. CAS number
4. ...

## Object Type **Experimental Step**

1. Name
2. Goals
3. Description
4. ...

# openBIS types

- For datasets we use different types with the same metadata. In this case different types are used to provide useful classification of data in an **Experiment** or **Experimental Step** page

Data Set Types

Code ↑	Description	Validation Plugin	Main Data Set Pattern	Main Data Set Path	Disallow Deletion
ANALYSIS_NOTEBOOK					false
ANALYZED_DATA					false
ATTACHMENT					false
ELN_PREVIEW					false
OTHER_DATA					false
PROCESSED_DATA					false
PUBLICATION_DATA					false
RAW_DATA					false
SEQ_FILE					false
SOURCE_CODE					false
UNKNOWN	Unknown				false



Experimental Step: Detection of LexA-ER-B42 induction by flow cytometry

General

Name: Detection of LexA-ER-B42 induction by flow cytometry

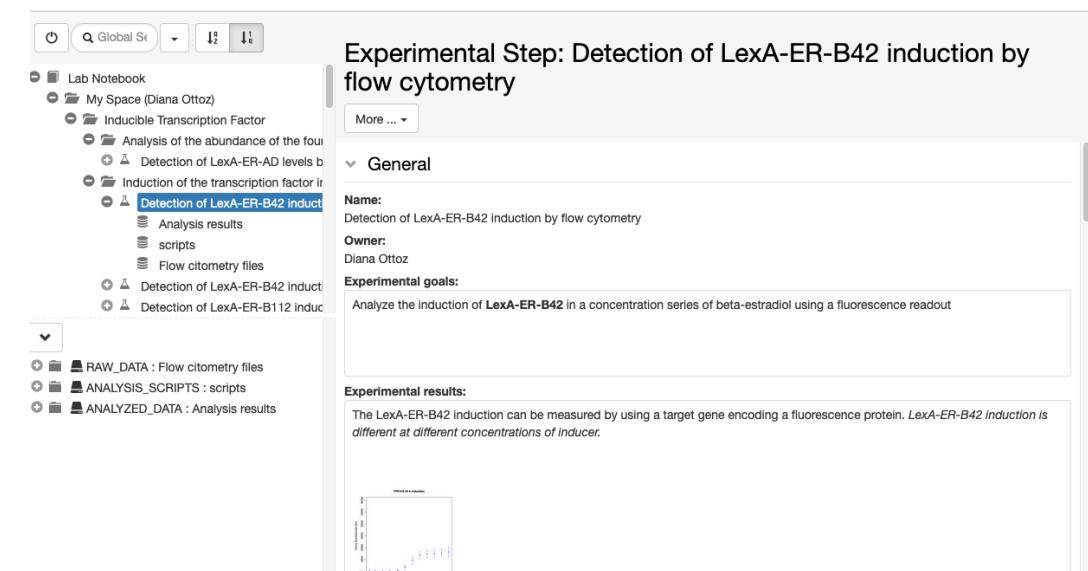
Owner: Diana Ottoz

Experimental goals:

Analyze the induction of LexA-ER-B42 in a concentration series of beta-estradiol using a fluorescence readout

Experimental results:

The LexA-ER-B42 induction can be measured by using a target gene encoding a fluorescence protein. LexA-ER-B42 induction is different at different concentrations of inducer.

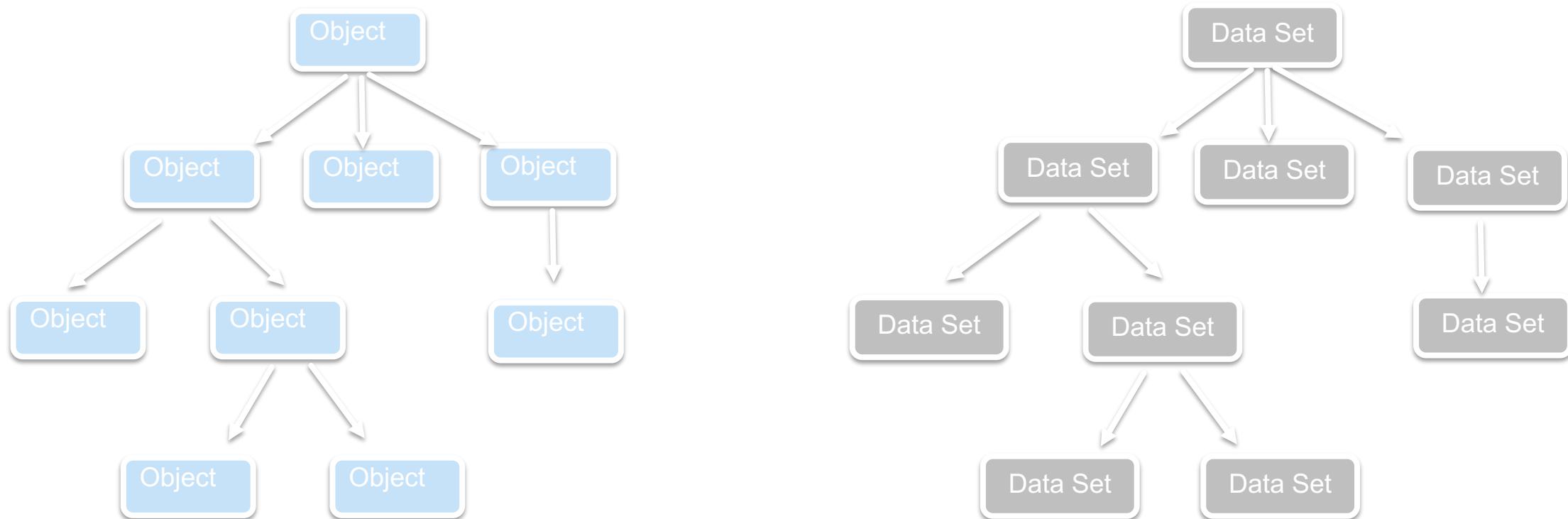


Metadata for most datasets:

1. Name
2. Notes
3. Comments

# Linking objects and datasets

- openBIS objects can be linked to other objects and datasets to other datasets with  $N:N$  relationship
- In openBIS terms, these are called “parent-child” relationships

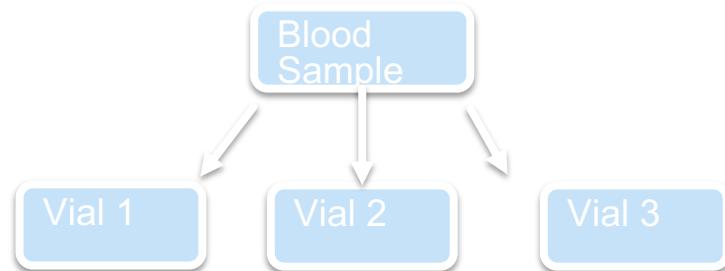


# What are “parents” and “children”?

- They are a way of connecting entities together.

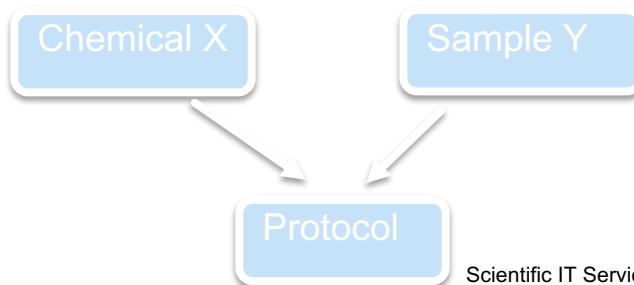
- Examples:

1. One sample is split into several vials and each of them is used for different types of measurements.



*The Blood Sample is parent of the samples in each vial*

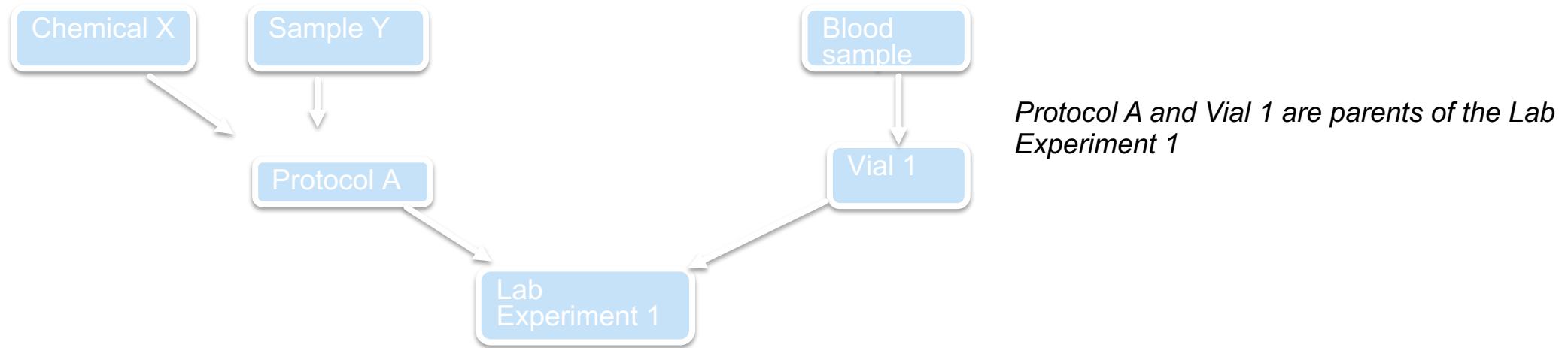
2. You write a protocol, and want to keep track of the samples used.



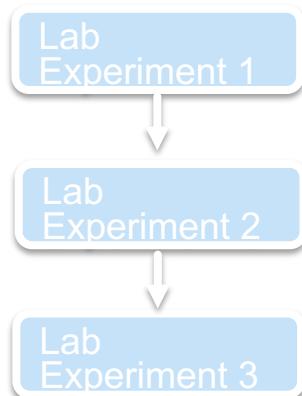
*Chemical X and Sample Y are parents of the protocol*

# What are “parents” and “children”?

3. You describe an experiment and you want to keep track of the protocol(s) and samples used



4. You make one experiment in several steps and you want to link each step to the previous one



# openBIS Users' Roles

Roles	Capabilities
Observer (Space/Project or Instance)	Read-only access to given spaces or to the whole instance.
Space/Project user	Create + edit Object, Experiment. Edit Project .
Space/Project power user	User rights +create Projects . Delete object, experiment, project, datasets. Add, update vocabulary terms.
Space/Project admin	Power user rights+ list roles; create and delete space roles; edit datasets.
Instance admin	Space admin rights + create types. Has access to everything.

# Overview of openBIS tutorial

# Overview of tutorial

1. Overview of Interfaces available in openBIS
2. Registration of object types
3. Dynamic properties
4. Validation plugins
5. ELN Settings
6. Users management
7. Space management

# Interfaces available in openBIS

openBIS currently provides 3 web user interfaces (UI):

## 1. Core UI.

- First openBIS interface.
- Originally used for everything.

# Core Interface

<https://openbis-training.ethz.ch/openbis/>

The image shows two side-by-side screenshots of the openBIS interface. On the left is the login screen, featuring the openBIS logo and a 'Please login to start your session:' message. It includes fields for 'User' and 'Password' and a 'Login' button. A blue line connects this screen to the larger screenshot on the right. The right screenshot shows the 'Edit Object Type EXPERIMENTAL\_STEP' page. The top navigation bar includes 'Browse', 'New', 'Import', 'Utilities', 'Search', and user information ('Admin barillac (BARILLAC\_BARILLAC)'). The main form contains sections for 'Entity Type Information' (Code: EXPERIMENTAL\_STEP, Description: empty), 'Validation Plugin' (EXPERIMENTAL\_STEP.date\_range\_validation), and various checkboxes for 'Listable', 'Show Container', 'Show Parents', 'Unique Subcodes', 'Generate Codes Automatically', 'Show Parent Metadata', and 'Generated Code Prefix: EXP'. Below this is a table titled 'Assigned Property Types' with 14 rows, each defining a property like '\$NAME' or 'START\_DATE' with details such as data type (Text, Date and Time) and managed status (no). At the bottom of the table are buttons for 'Entity: Add | Edit | Delete | Save'.

Ordinal	Section	Property Type Code	Mandatory?	Data Type	Dynamic?	Managed?	Shown in Editor View?	Show Raw Value in Fo...	Script
1	General info	\$NAME	no	Text	no	no	yes	no	
2	General info	\$SHOW_IN_PROJECT_OVERVI...	no	True / False	no	no	yes	no	
3	General info	FINISHED_FLAG	no	True / False	no	no	yes	no	
4	General info	START_DATE	no	Date and Time	no	no	yes	no	
5	General info	END_DATE	no	Date and Time	no	no	yes	no	
6	Experimental details	EXPERIMENTAL_STEP.EXPERIM...	no	MULTILINE_VARCHAR	no	no	yes	no	
7	Experimental details	EXPERIMENTAL_STEP.EXPERIM...	no	MULTILINE_VARCHAR	no	no	yes	no	
8	Experimental details	EXPERIMENTAL_STEP.EXPERIM...	no	MULTILINE_VARCHAR	no	no	yes	no	
9	Experimental details	EXPERIMENTAL_STEP.SPREADS...	no	XML	no	no	yes	no	
10	References	REFERENCE	no	MULTILINE VARCHAR	no	no	yes	no	

# Interfaces available in openBIS

openBIS currently provides 3 web user interfaces (UI):

## 1. Core UI.

- First openBIS interface.
- Originally used for everything.

## 2. ELN UI.

- Development started in 2013.
- In use since 2015 as alternative user interface to core UI.

# ELN User Interface

<https://openbis-training.ethz.ch/openbis/webapp/eln-lims/?>

The screenshot displays the openBIS Lab Notebook & Inventory Manager interface. On the left, a sidebar shows navigation links for Lab Notebook, Inventory, Methods, Publications, Stock, Utilities, and various Managers. The main area is titled "New Tissues" and contains fields for Identification Info, General Info, and other details.

**New Tissues**

**Identification Info**

- Type: TISSUES
- Collection: /MATERIALS/SAMPLES/TISSUES
- Code (\*): TIS2
- Parents: [empty]
- Children: [empty]

**General Info**

- Sample ID: Sample ID
- Tissue\_types: Tissue\_types
- CRO: CRO
- Breeder: Breeder
- Age: [empty]

# Interfaces available in openBIS

openBIS currently provides 3 web user interfaces (UI):

## 1. Core UI.

- First openBIS interface.
- Originally used for everything.

## 2. ELN UI.

- Development started in 2013.
- In use since 2015 as alternative user interface to core UI.

## 3. New admin interface

- Preliminary version available with openBIS v20.10.0.
- Current version with most features available with openBIS v20.10.1 (latest version)

# New Admin Interface

<https://openbis-training.ethz.ch/openbis/webapp/openbis-ng-ui/#/>

The screenshot displays the OpenBIS Admin Interface. On the left, a modal window titled "Login" shows fields for "User" (barillac) and "Password" (redacted), with a "LOGIN" button. The main area has a header with "TYPES", "USERS", and "TOOLS". The "TYPES" tab is active, showing a sidebar with "Object Types", "Collection Types", "Data Set Types", "Material Types", and "Vocabulary Types". The main content area is titled "Object Types" and lists various object types with columns for "Code", "Description", "Validation Plugin", "Generated code prefix", "Generate Codes", "Unique Subcodes", and "Sh Pa". The listed objects include ANTI BODY, BACTERIA, CELL LINE, CHEMICAL, ENTRY, ENZYME, EXPERIMENTAL STEP, FLY, GENERAL ELN SETTINGS, and GENERAL PROTOCOL. At the bottom right, there are buttons for "ADD" and "REMOVE", and a footer with pagination controls.

Code ↑	Description	Validation Plugin	Generated code prefix	Generate Codes	Unique Subcodes	Sh Pa
ANTIBODY			ANT	true	false	true
BACTERIA			BAC	true	false	true
CELL_LINE			CEL	true	false	true
CHEMICAL			CHE	true	false	true
ENTRY			ENTRY	true	false	true
ENZYME			ENZ	true	false	true
EXPERIMENTAL_STEP		EXPERIMENTAL_STEP.date_range_validation	EXP	true	false	true
FLY			FLY	true	false	true
GENERAL_ELN_SETTINGS			S	false	false	true
GENERAL_PROTOCOL			GEN	true	false	true

# Object type registration

# Object type definition

Entry	Description	Clarifications
<b>Code</b>	Name	Only numbers, letters, no spaces, _, -, .
<b>Description</b>		
<b>Entity validation plugin</b>	Script for validating some data entries	Eg. Ensure that someone's age is not >120 years
<b>Generated code prefix</b>	Prefix of the single entries that will be registered in openBIS	E.g. TIS1, TIS2, TIS3
<b>Generate codes</b>	Codes can be automatically generated by openBIS	Flag currently only respected for batch update. Will be fixed in next release
<b>Unique subcodes</b>	Not used in ELN	Legacy for backward compatibility
<b>Show parents</b>	Not used in ELN	Legacy for backward compatibility
<b>Show Container</b>	Not used in ELN	Legacy for backward compatibility
<b>Show parents metadata</b>	Not used in ELN	Legacy for backward compatibility
<b>Listable</b>	Not used in ELN	Legacy for backward compatibility

# Sections in object types

A section is a way of grouping properties on the forms.

Object Type: CHEMICAL X

Form Preview

Code  
CHE

Parents

General info

[ \$NAME ] [ VARCHAR ]  
Name

[ \$BARCODE ] [ VARCHAR ]  
Custom Barcode

Supplier and storage

[ \$SUPPLIER ] [ VARCHAR ]  
Supplier

[ ARTICLE\_NUMBER ] [ VARCHAR ]  
Art. Number

[ CAS\_NUMBER ] [ VARCHAR ]  
CAS Number

[ STORAGE\_CONDITIONS ] [ CONTROLLEDVOCABULARY ]  
Storage conditions

References

[ REFERENCE ] [ MULTILINE\_VARCHAR ]  
References



New Chemical

Save Templates More ...

General info

Name:  
Name

Parents +

Children +

Supplier and storage

Supplier:  
Supplier of the product

Art. Number:  
Article number of the product

CAS Number:  
CAS number

Storage conditions:  
Storage conditions of the product

References

References:

Publication:

Comments

Notes:

# Registration of properties in object types

Property	
Scope *	Local
Code *	
Data Type *	
Label *	
Description *	
Dynamic Property Plugin	
<input checked="" type="checkbox"/> Visible	
<input type="checkbox"/> Mandatory	

Entry	Description	Clarifications
<b>Scope</b>	Global: can be re-used across types Local: specific to the object type	E.G Name is global; Company providing tissues (CRO) is specific to the Tissue object type
<b>Code</b>	Unique identifier of the property	Only numbers, letters, no spaces, _, -, .
<b>Data type</b>	See next slide	
<b>Label</b>	This is what is shown in the forms	
<b>Description</b>		
<b>Dynamic Property Plugin</b>	Script for calculated properties	
<b>Visible</b>	Visible in Edit mode (will be renamed)	Currently does not work, but fixed in new release
<b>Mandatory</b>	Field can be set as mandatory	

**\$Properties:** these are internal properties that cannot be modified

# Data Types

BOOLEAN  
CONTROLLEDVOCABULARY  
DATE  
HYPERLINK  
INTEGER  
MATERIAL  
MULTILINE\_VARCHAR  
REAL  
SAMPLE  
TIMESTAMP  
VARCHAR  
XML

Data type	Explanation
<b>Boolean</b>	True/False, Yes/No, 0/1
<b>Controlled Vocabulary</b>	Predefined list (dropdown)
<b>Date</b>	2021-05-10
<b>Hyperlink</b>	<a href="http://www.openbis.ch">www.openbis.ch</a>
<b>Integer</b>	5, 1500000
<b>Material</b>	Not used in ELN. Will be dismissed
<b>Multiline Varchar</b>	Long text
<b>Real</b>	5.1, 2/3
<b>Sample</b>	1-1 connection to a specific object type.
<b>Timestamp</b>	2021-05-10 22:24:58 +0000
<b>Varchar</b>	One-line text
<b>XML</b>	Only used for special properties, such as the spreadsheet component.

# Vocabulary Types

The screenshot shows a software application for managing vocabulary types. The top navigation bar includes 'TYPES', 'USERS', 'TOOLS', a search bar, and a power icon. The main area displays 'Object Type: PATIENT' and 'Vocabulary Type: TISSUE\_TYPES'. The left sidebar lists categories like 'SUPPLIER', 'TISSUES', 'UNKNOWN', 'Collection Types', 'Data Set Types', 'Material Types', 'Vocabulary Types' (which is expanded), and various dollar-sign variables. A red arrow points from the 'TISSUE\_TYPES' entry in the sidebar to the 'ADD TERM' button at the bottom. The central 'Terms' table shows three entries: KIDNEY (Label: Kidney, Official: true), LIVER (Label: Liver, Official: true), and LUNG (Label: Lung, Official: true). The right panel shows a detailed view of the 'KIDNEY' term, including its code (KIDNEY), label (Kidney), description (empty), and an 'Official' checkbox which is checked. Buttons for 'SAVE' and 'CANCEL' are at the bottom right.

Code	Label	Description	Official
KIDNEY	Kidney		true
LIVER	Liver		true
LUNG	Lung		true

Term

Code \*  
KIDNEY

Label  
Kidney

Description

Official

Rows per page: 10 1-3 of 3 < < > >>

ADD TERM REMOVE TERM ADD REMOVE SAVE CANCEL

# Vocabulary Types

## 1. Vocabulary definition

### New Vocabulary Type

Code *	TISSUE
Description	
URL Template	

## 2. Vocabulary terms

### Term

Code *	LUNG
Label	Lung
Description	
<input checked="" type="checkbox"/> Official	

**\$Vocabularies:** internal vocabularies. Cannot be deleted, predefined terms cannot be deleted.

New terms can be added and deleted.

Type	Explanation
Code	Unique identifier. Only numbers, letters, no spaces, _, -, .
Description	
URL template	Not supported in ELN.

Type	Explanation
Code	Unique identifier. Only numbers, letters, no spaces, _, -, .
Label	This is what is shown in the forms
Description	Description of the term
Official	In some cases, it is possible to add vocabularies “on the fly” and they need to be approved by an admin as official terms. <b>Feature not currently available in ELN.</b>

# Enabling custom widgets in ELN settings

Two widgets are currently available for some properties and need to be enabled in the Settings:

- 1. Word Processor:** Rich Text Editor available for properties of type MULTILINE\_VARCHAR
- 2. Spreadsheet:** Spreadsheet component available for properties of type XML

The screenshot shows the 'Settings' page with the 'Custom Widgets' section open. On the left, there is a sidebar with various navigation links. The main area has a 'Save' button and a 'Custom Widgets' section with a note: 'Assign custom widgets to properties!'. Below this, there are two columns: 'Property Type' and 'Widget'. The 'Property Type' column lists several properties, each with a dropdown menu. The 'Widget' column shows the current selection for each property. A modal dialog is open over the 'Widget' column, listing three options: 'Word Processor', 'select widget', and 'Spreadsheet'. The 'Spreadsheet' option is highlighted with a blue background.

Property Type	Widget
\$document	Word Processor
Antibody.epitope	select widget
Antibody.isotype	Word Processor
Bacteria.genotype	Spreadsheet
Bacteria.markers	Word Processor

# Dynamic Property & Entity Validation Plugins

# Plugins

The screenshot shows the 'Dynamic Property Plugins' tool interface. At the top, there are navigation tabs: 'TYPES', 'USERS', and 'TOOLS'. The 'TOOLS' tab is highlighted with a red box. Below the tabs is a 'Filter' section with a 'Dynamic Property Plugins' dropdown and a 'Entity Validation Plugins' dropdown, both also highlighted with red boxes. The main area contains two tabs: 'Dynamic Property Plugins' and 'New Dynamic Property Plugin 1'. The 'New Dynamic Property Plugin 1' tab is active. It has two sections: 'Script' and 'Tester'. The 'Script' section contains a 'Script \*' input field. The 'Tester' section contains 'Entity Kind' and 'Entity' dropdowns. To the right, there is a 'New Dynamic Property Plugin' configuration panel with fields for 'Name \*', 'Entity Kind (All)', and 'Description'. At the bottom, there are buttons for 'ADD', 'REMOVE', 'EVALUATE', and 'SAVE'.

# ELN Settings

# Settings - Barcode Generation

The screenshot shows the 'Settings' page with the following interface elements:

- Top Bar:** Includes a power icon, a search bar labeled 'Global S...', and two download icons.
- Left Sidebar (Main Menu):** A tree view of the application's sections:
  - Inventory
  - Materials
  - Patient
    - Patient
    - Tissues
  - Samples
  - Methods
  - Protocols
    - General Protocols
  - Publications
  - Public Repositories
    - Publications Collection
  - Stock
    - Stock Catalog
    - Stock Orders
  - Utilities
    - User Profile
    - Barcodes Generator
    - Object Browser
    - Vocabulary Browser
    - Advanced Search
  - Exports
    - Storage Manager
    - User Manager
    - Trashcan
  - Settings
  - About
- Save Button:** A blue button labeled 'Save'.
- Text Note:** A note explaining that these options allow administrators to show or hide sections from the main menu.
- Table:** A configuration table with columns 'Main Menu Item' and 'enabled'. The table lists various items with their current enabled status (checkboxes). Two specific items are highlighted with red boxes:
  - showBarcodes: Enabled (checked)
  - showLabNotebook: Enabled (checked)
  - showInventory: Enabled (checked)
  - showStock: Enabled (checked)
  - showObjectBrowser: Enabled (checked)
  - showExports: Enabled (checked)
  - showStorageManager: Enabled (checked)
  - showAdvancedSearch: Enabled (checked)
  - showUnarchivingHelper: Enabled (checked)
  - showTrashcan: Enabled (checked)
  - showVocabularyViewer: Enabled (checked)
  - showUserManager: Enabled (checked)
  - showUserProfile: Enabled (checked)
  - showZenodoExportBuilder: Disabled (unchecked)
  - showBarcodes: Enabled (checked)
  - showDatasets: Enabled (checked)

# Settings - Zenodo Export

The screenshot shows the 'Settings' page with the 'Main Menu' section open. A red box highlights the 'Export to Zenodo' option under the 'Exports' category in the left sidebar menu.

**Main Menu**

These options give the opportunity to the administrator to show/hide different sections of the user interface from the main menu.

Main Menu Item	enabled
showLabNotebook	<input checked="" type="checkbox"/>
showInventory	<input checked="" type="checkbox"/>
showStock	<input checked="" type="checkbox"/>
showObjectBrowser	<input checked="" type="checkbox"/>
showExports	<input checked="" type="checkbox"/>
showStorageManager	<input checked="" type="checkbox"/>
showAdvancedSearch	<input checked="" type="checkbox"/>
showUnarchivingHelper	<input checked="" type="checkbox"/>
showTrashcan	<input checked="" type="checkbox"/>
showVocabularyViewer	<input checked="" type="checkbox"/>
showUserManager	<input checked="" type="checkbox"/>
showUserProfile	<input checked="" type="checkbox"/>
showZenodoExportBuilder	<input checked="" type="checkbox"/>
showBarcodes	<input checked="" type="checkbox"/>
showDatasets	<input checked="" type="checkbox"/>

**Storages**

# Settings - Create a new storage

The screenshot shows the 'Settings' interface with the 'Storage' section selected. A red arrow points from the 'New Storage' button in the list view to the corresponding button in the 'New Storage' dialog.

**Settings**

**Storage**

**New Storage**

Code	Name	Identifier	Modification Date
BENCH	Bench	/ELN_SETTINGS/STORAGES/BENCH	2021-03-15 11:55:01
DEFAULT_STORAGE	Default Storage	/ELN_SETTINGS/STORAGES/DEFAULT_STORAGE	2021-03-15 11:55:01

**New Storage**

**General info**

**Name:** Name

**Number of Rows:** Number of Rows

**Number of Columns:** Number of Columns

**Number of Boxes:** Allowed number of Boxes in a rack

**Rack Space Warning:** Number between 0 and 99, represents a percentage

**Box Space Warning:** Number between 0 and 99, represents a percentage

**Validation level (\*):** Validation level

**Metadata**

**Comments Log**

# Settings - Templates

## Settings

[Edit](#) [Show available storage space](#)

▼ **Templates**

Here you can edit your templates.

[+ New Template](#)

Code	Name	Identifier	Modification Date
ORDER_TEMPLATE		/ELN_SETTINGS/TEMPLATES/ORDER_TEMPLATE	2021-03-15 11:55:01

1 - 1 of 1 items  Per Page  of 1

# Settings – Inventory Spaces and association of file extension with dataset types

Settings

**Save**

**Inventory Spaces**

By default all new spaces created in openBIS are shown under the Lab Notebook in the main menu. Spaces ending with postfixes listed here are shown under the Inventory.

**Space**

Storage + -

Stock Catalog + -

Methods + -

Materials + -

**Space Read only**

Ein Settings + -

Publications + -

Stock Orders + -

**Dataset types for filenames**

When listing a combination of file extension / Dataset Type on this section the Dataset uploader will select a Dataset Type by default. This decision can be overridden by users afterwards but provides a nice default to avoid mistakes.

Filename extension	Dataset type
.pptx	Attachment

# Users Management

# Users Registration – ELN UI

The screenshot illustrates the process of creating a new user in the ELN system. It consists of two main parts: the main application window and a modal dialog.

**Main Application (User Manager):**

- Left Sidebar:** Contains a tree view of the system navigation, including categories like Lab Notebook, Inventory, Methods, Publications, Stock, Utilities, and Storage Manager.
- Header:** Includes a search bar labeled "Global S" and other standard UI elements.
- Central Area:** Titled "User Manager". A red box highlights the "New User" button in the top right corner of the header.
- Data Grid:** Displays a list of existing users with columns for User ID, Email, First Name, Last Name, and Operations. The "Operations" column contains dropdown menus for each user.
- Pagination:** Shows "1 - 6 of 6 items" and a "Per Page" dropdown set to 10.

**Modal Dialog (Create User):**

This dialog is triggered by the "New User" button. It has two versions shown side-by-side, both with a red border.

- Top Version:** Shows the "Authentication Service" dropdown set to "Default Authentication Service". The "User ID (\*):" field is empty, and there are "Accept" and "Cancel" buttons.
- Bottom Version:** Shows the "Authentication Service" dropdown set to "File Authentication Service". It includes additional fields for "User ID (\*):", "Password (\*):", and "Password Repeat (\*):". The "Accept" and "Cancel" buttons are also present.

A large red arrow points from the "New User" button in the main application to the "Accept" button in the bottom modal dialog, indicating the flow of the registration process.

# Users Registration – new admin UI

The screenshot shows the new admin UI for user registration. The top navigation bar includes 'TYPES', 'USERS' (highlighted with a red box), and 'TOOLS'. A search bar and power button are also present. The main area shows 'Groups X', 'Users X', and a specific entry 'User: admin X'. On the left, a sidebar lists 'Users' (with 'admin' selected) and 'Groups' (highlighted with a red box). The central part displays 'Groups' and 'Roles' tables. The 'Groups' table has columns 'Code' and 'Description'. The 'Roles' table has columns 'Inherited From', 'Level', 'Space', 'Project', and 'Role'. At the bottom, there are 'ADD' and 'REMOVE' buttons, and an 'EDIT' button on the right.

# Space Management

# Spaces – core UI

<https://openbis-training.ethz.ch/openbis/>

The screenshot shows the OpenBIS administrative interface. On the left, a sidebar menu includes 'Spaces' (selected), 'Vocabularies', 'Types', 'Plugins', 'Authorization', and 'Active Users Report'. A red arrow points from the 'Spaces' menu item to the 'Space Browser' tab in the main content area. The 'Space Browser' tab is active, displaying a table with columns 'Code', 'Description', and 'Registrar'. The table lists several system spaces:

Code	Description	Registrar
DEFAULT		System User
DEFAULT_LAB_NOTEBOOK	Default Lab Notebook	System User
ELN_SETTINGS	ELN Settings	System User
MATERIALS	Folder for materials	System User
METHODS	Folder for methods	System User
PUBLICATIONS	Folder for publications	System User
STOCK_CATALOG	Folder for the catalog	System User
STOCK_ORDERS	Folder for orders	System User
STORAGE	Folder for the storage positions	System User

A modal dialog titled 'Add a new space' is open on the right, with a red arrow pointing to its 'Save' button. The dialog has fields for 'Code:' and 'Description:', both currently empty. At the bottom are 'Save' and 'Cancel' buttons.

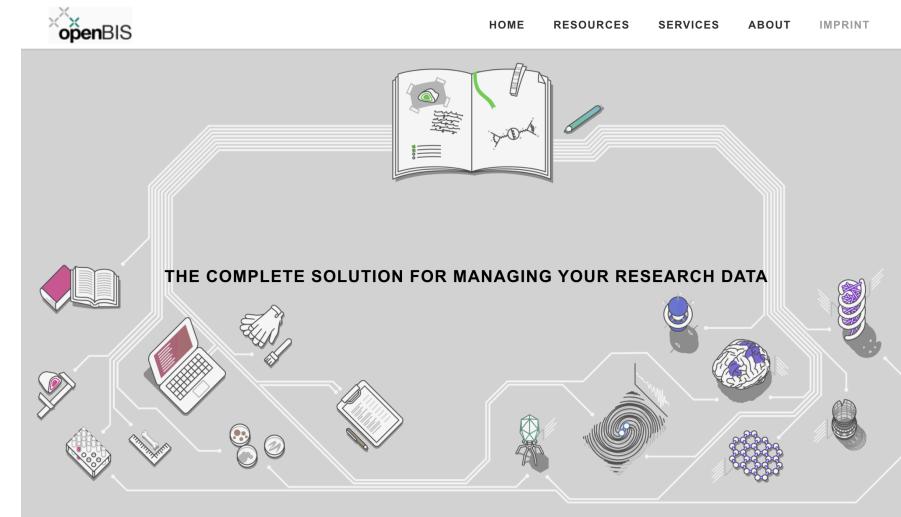
At the bottom of the page, the URL is https://bs-openbis-sis-ci-sprint.ethz.ch/openbis/#, and there are buttons for Refresh, Export, Entity: Add Space, Edit, and Delete.

# Contacts & useful info

**Documentation & video tutorials:** <https://openbis.ch/>

**SIS website:** <https://sis.id.ethz.ch/>

**Twitter:** [https://twitter.com/ETH\\_SIS](https://twitter.com/ETH_SIS)



## SIS openBIS helpdesk

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