# eLab Manuals

# eLab Wizard

## 1. Introduction

The purpose of the eLab is to provide an overview over the data available within the EVOLTREE project. It can be used to get an insight on which data has been produced in the course of the project and by which EVOLTREE partner organisation.

The eLab collects the data available at partner organisations and formats it to enable search queries on it. No new data is created within the eLab. Every data item from the eLab database belongs to an EVOLTREE partner organisation.

## 2. Data Structure

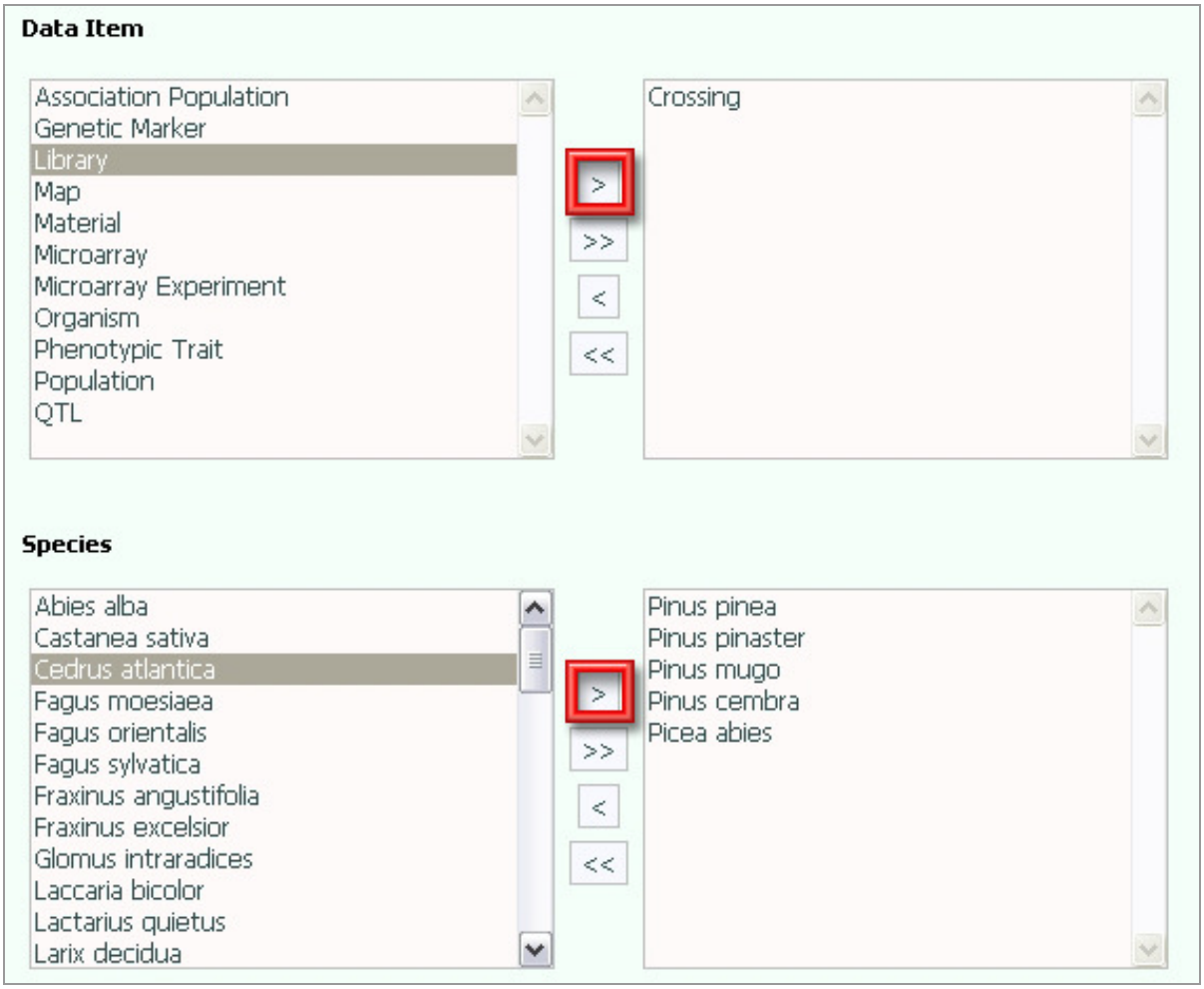
All data available within the project is organised in so-called data items. The list of data items represents the data types that are available within the EVOLTREE project. Therefore, the data items are supplemented every time new (not previously known) data is added to the eLab.

Currently 12 data items are available:

- Association Populations
  group of genotypes selected for the study of one or more traits of interest
- Crossings
  mapping pedigrees - group of genotypes with a fixed genealogy
- Genetic Markers
  some are linked to maps, genotypic traits or diversity measurements
- Libraries
  libraries of type cDNA, SSH, SSR, etc
- Maps
  genetic and QTL maps
- Material
  all materials available within the project - could be cDNA, gDNA, BACs, leaves, roots, etc
- Microarrays
- Microarray Experiments
- Organisms
  all organisms available within the project (trees, insects, …)
- Phenotypic Traits
  some of them are linked to QTLs
- Populations (Natural Populations)
  natural populations with linked genetic data, diversity measures and georeferenced data
- QTLs
  some are linked to phenotypic traits

## 3. Search

When starting an eLab Search using the eLab Wizard, you are first asked to select the data items and (optionally) the species you are interested in. Mark the items and click the arrow button so that the items are shifted to the box on the right:

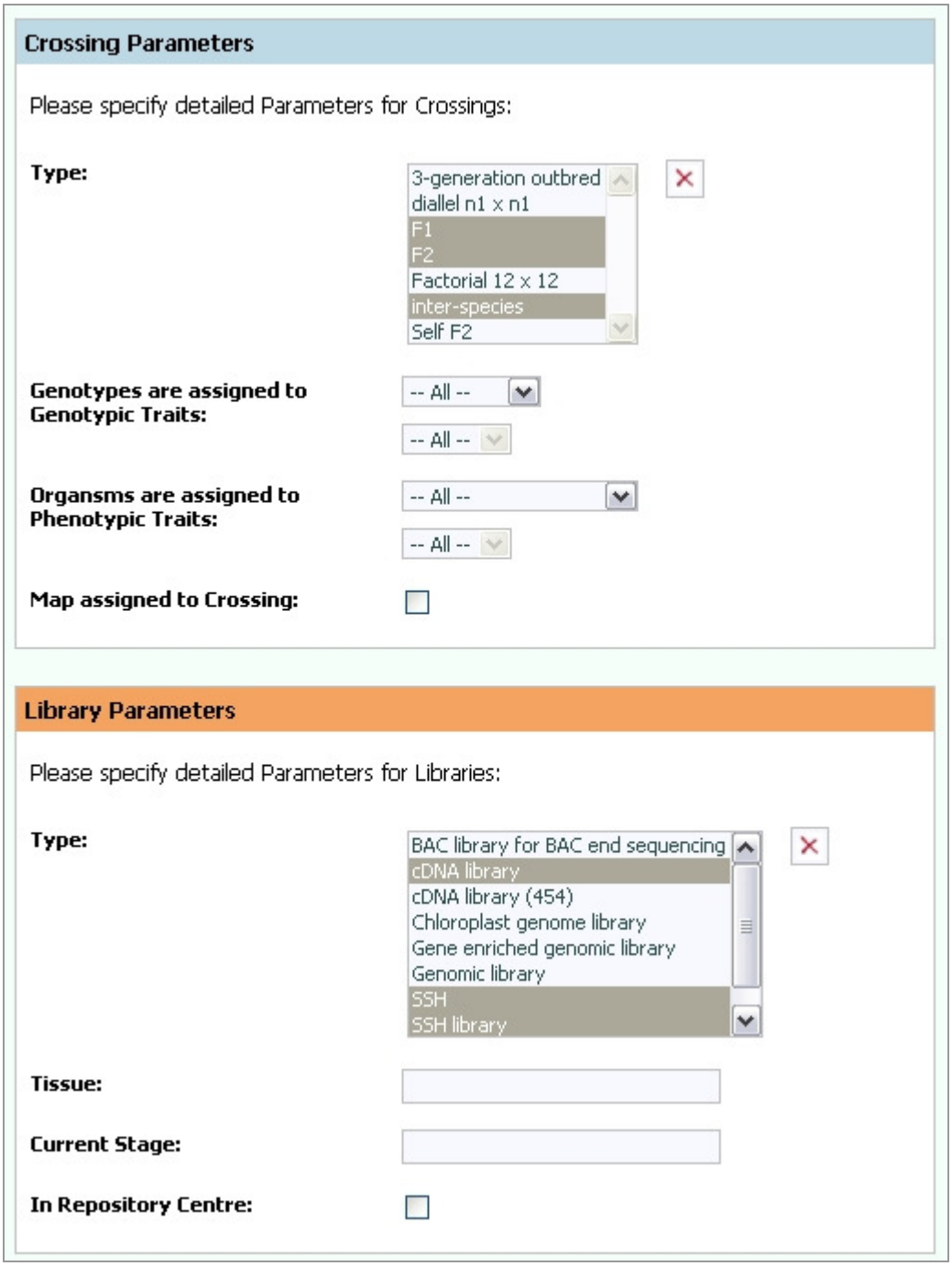



Then you can decide whether you would like to see the search result, or if you would like to refine your search parameters.

### 3.1. Refine Search

For each data item certain parameters are available which can be used to restrict the search. The parameters for the selected data items can be viewed by clicking on the button “Next”:


Then the parameters are shown:

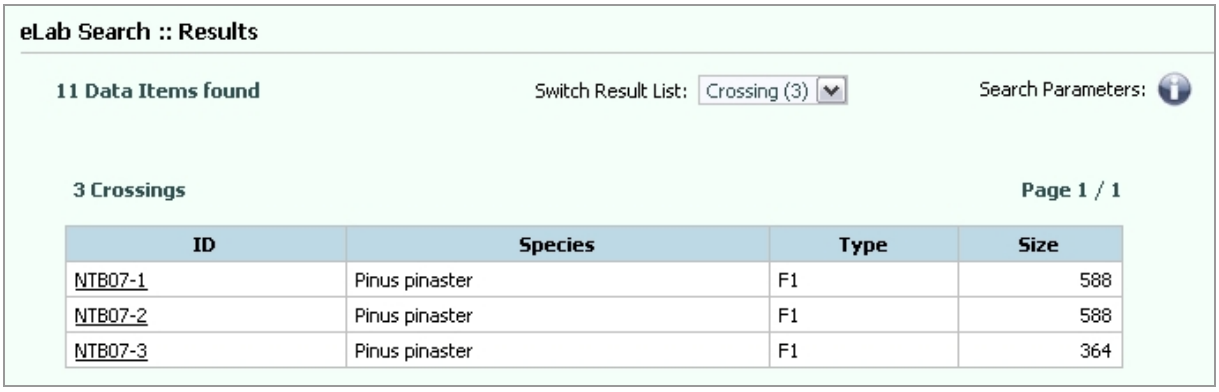



You can select the parameters you are interested. If all input items are left unchanged, all available data items are returned (without restrictions).

The search can be started by clicking on the search button:

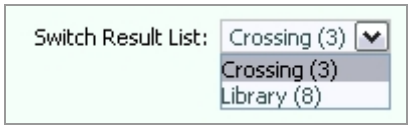
### 3.2. Result View

The search result is shown in a new page:




The following operations are available in the result view:

- After the search has finished, the results of the first data item (ordered alphabetically) are shown. If you would like to see the search results of the other data items, use the “Switch Result List” function:

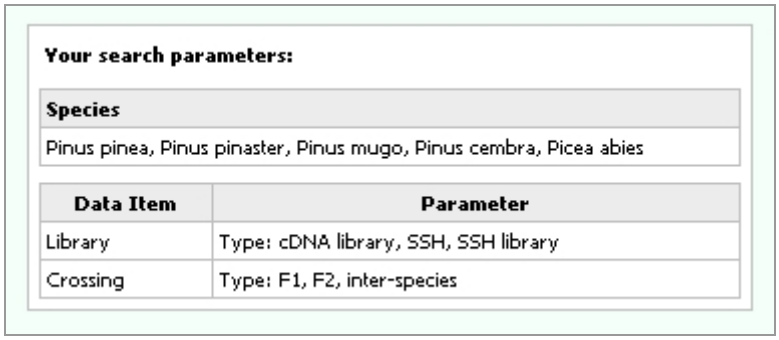
  
  

  All selected data items are shown in the list together with the number of results returned by the search query.

- If you would like to review you search parameters, you can use the “Search Parameters” function:

  By clicking on the icon the search parameters can be reviewed in a pop window:

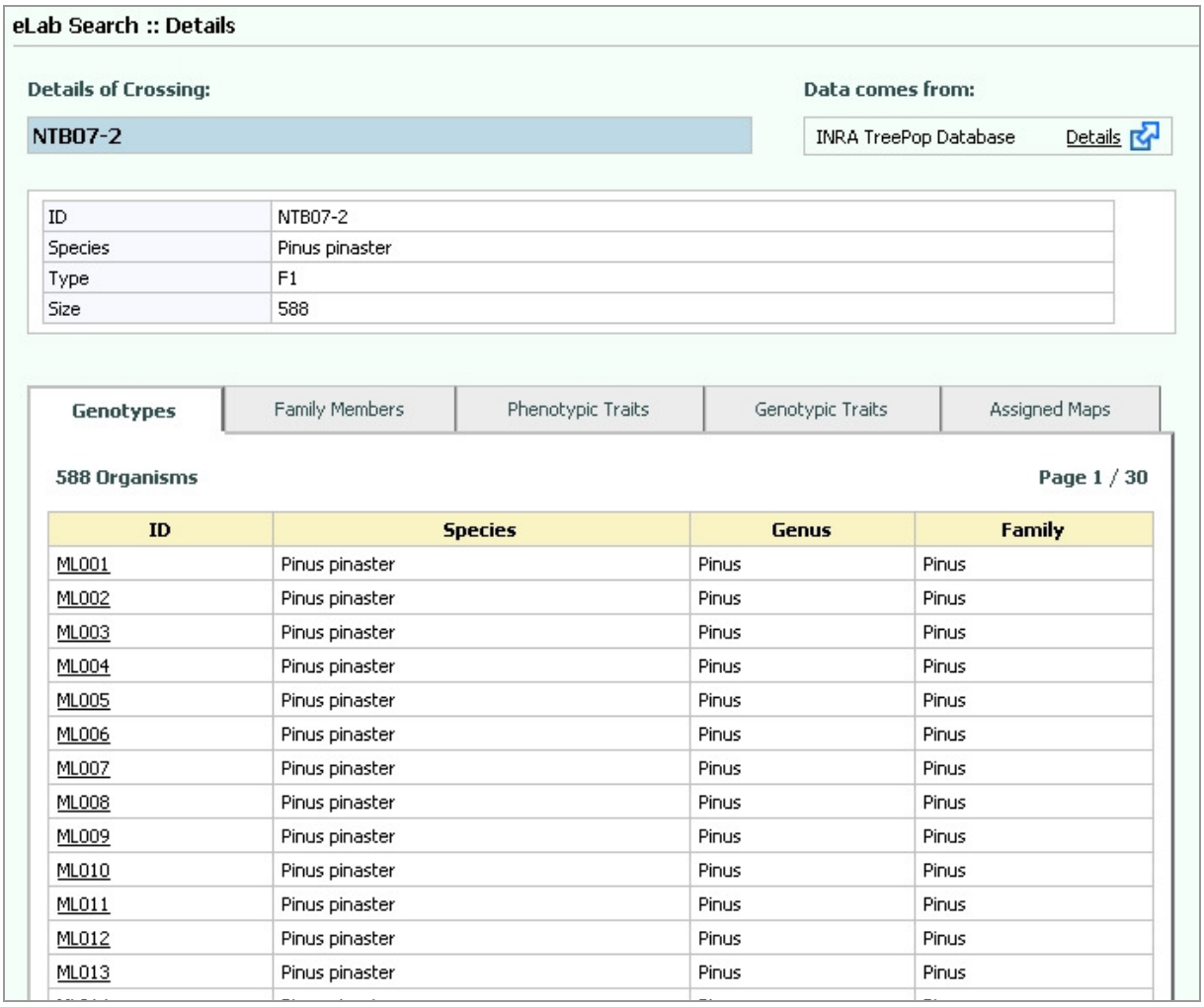
- If you would like to start a new search, use the following button on the right side:

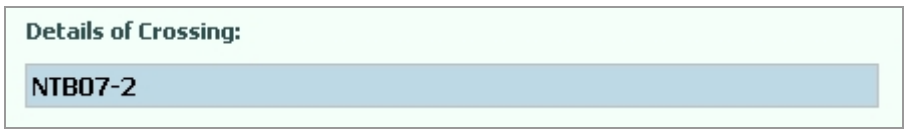
### 3.3. Details View

Every item displayed in the result can be clicked to see more details about it.

For example when clicking on a crossing, the following page is shown:




- In the header, the name of the crossing is shown:



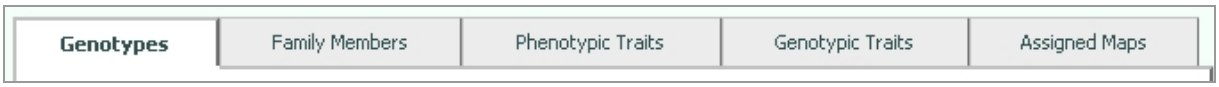

- Beside the name the name of the database where the item comes from is shown:


If available, a link is displayed to view more details about the item (“Details”). When clicking on it, you are redirected to the partner database (and logged in automatically) to view the original data.

- In the table below the header the main parameters of the data item are shown:

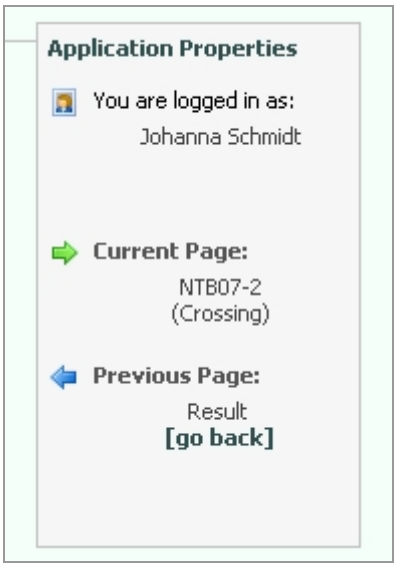
| | |
|---|---|
| ID | NTB07-2 |
| Species | Pinus pinaster |
| Type | F1 |
| Size | 588 |

- At the bottom of the details view there is a list of tabs. There additional information for the current data item can be found:




### 3.4. Application Properties

At every eLab view the so-called “Application Properties” are shown on the right side. This window contains some information about the current eLab session:




The first paragraph contains information about your user account - whether you are recognised as an EVOLTREE member, or as guest user.

The two paragraphs show the page which is currently viewed, and the page which was displayed before. By clicking on the link “[go back]”, you can jump back to the previous view.