AniShare Documentation

Release 1.5

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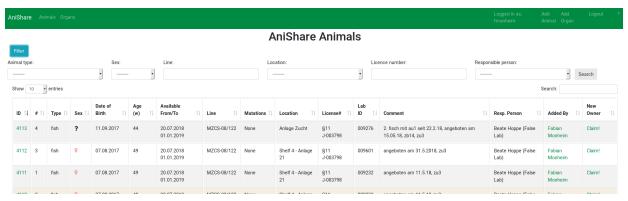


Introduction

anishare is a webservice for research institutes to share animals with the goal to re-use animals and thus minimize total animal usage.

It has been developed at the Leibniz institute for aging research in Jena. This django app is meant to be used by researchers who want to share research animals with their colleagues. The basic idea is that animals are bred for experiments; however, sometimes, not all parts of the animal are used or sometimes an experiment gets cancelled for whatever reason. By sharing animals within the institute, less animals in total have to be sacrificed for research.

Anishare is a simple database of animals offered for reuse and a easy way to claim an animal with automatic generation of email messages as well as an RSS feed for updates.



At the moment, the software/database is geared towards handling of mice, however, it can be adjusted to handle any kind of research animal. AniShare is not connected to *PyRat* or *Tick@lab*. The official changes (e.g. new ownership must be applied in *PyRat* or *Tick@lab* separately by the responsible person, in communication with the animal care takers).

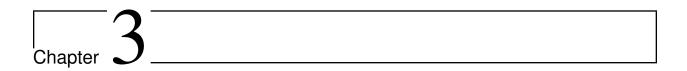
This documentation can also be downloaded as pdf file: Anishare Documentation



Contact

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Content support: Animal Facility and Animal Welfare Officer



Sitemap

- Start: https://anishare.leibniz-fli.de
- Animal: https://anishare.leibniz-fli.de/animals
- Organ: https://anishare.leibniz-fli.de/organs
- Animal and organ feed: https://anishare.leibniz-fli.de/animals/feed
- Administration: https://anishare.leibniz-fli.de/admin
- Macros: https://anishare.leibniz-fli.de/macros
- Change history: https://anishare.leibniz-fli.de/changehistory
- Change history feed: https://anishare.leibniz-fli.de/changehistory/feed



User types

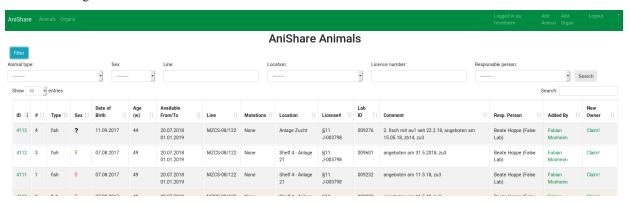
- User: every FLI employee who wants to claim an animal.
- Manager: this person is appointed within the research group and coordinates the offering/sharing of animals.
- Person who perform euthanasia: this person will be named in anishare by the manager (relevant only for organ sharing).
- Superuser: this person is administrator of the database and has the full control of the function (IT, animal welfare officers, veterinarians and heads of animal facilities).



Main user interface

5.1 Animals

The main user-facing site is the list of animals to be shared. A user can browse this list, sort it via the headers or search for a term using the search bar.



If a user is interested in an animal, they should click on the button "Claim" which will bring up another page (see below) in which they can review their claim before finally submitting. When they click on "Yes, I want to claim this!", then they will be entered as *new owner* of this animal and an email will be send to them as well as the responsible/contact person informing them about this transaction. Further steps might need to be necessary such as transferring the animal in the LIMS (eg. PyRat).

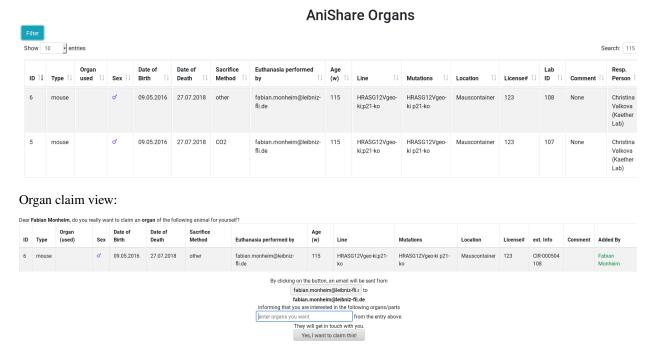
Note: If more than one animal is available, the user can adjust the number they want to claim. The remaining animals will still be available for claim. Because of uniqueness it's only possible to offer exactly one mouse per dataset. In contrast fishes can be offer in a group.



5.2 Organs

There exists an individual page for animal organ share. It is very similar to the animal page, however only individual organs are for offer. The entry at the column Organ (used) indicates all organs which can not be claimed. Also there is no availability period, but a day at which the animal gets sacrificed. The person responsible for sacrifice the animal will be informed via email if anybody claims some of the available organs. The entry will remain available to others (as they might want to claim other organs).

Organ index view:



5.3 RSS Feed

An RSS feed containing the latest ten animals and organs is automatically generated and can be found at /animals/feed. Users can subscribe (Most email clients allow the subscription to RSS feeds) to this feed to stay up-to-date with the animal catalogue. By clicking on a link in the feed, they are directed to the claim page of the individual animal/organ.

5.2. Organs 6

Anishare animal feed

Updates on animals to share.

10 unknown fish, some line id:3 [2018-05-06]

id:248962, lab_id:LAB648, available:2018-06-01-2018-06-30, location:Fish Facility, mutations:

2 female mouse, ko/ko id:4 [2018-03-01]

id:695968, lab_id:LAB3584, available:2018-05-01-2018-05-16, location:Animal House 2, mutations:

2 male mouse, ko/ko id:1 [2018-01-01]

id:274628, lab_id:LAB648, available:2018-05-29-2018-06-30, location:Animal House 1, mutations:

1 female mouse, ki/ki id:2 [2018-03-01]

id:159758, lab_id:LAB3584, available:2018-05-29-2018-06-29, location:Animal House 2, mutations:

5.3. RSS Feed 7



Main animal manager tasks

An *animal manager* can add animals and organs to the database on two ways. First, it is possible to add entrys manually. Secondly, it is possible to import an Excel sheet. At the FLI Jena there are two databases to manage animals. Now the databases are not connected. To transfer more than one or two datasets to anishare it's recommend to use the export function of *PyRAT* or *tick@lab* and the import function of anishare. To use the export/import process please read the topic **Animals import** or **Organs import**.

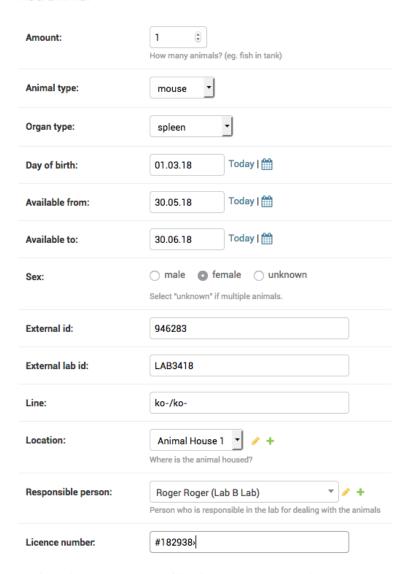
Welcome to AniShare



6.1 Add Animals manually

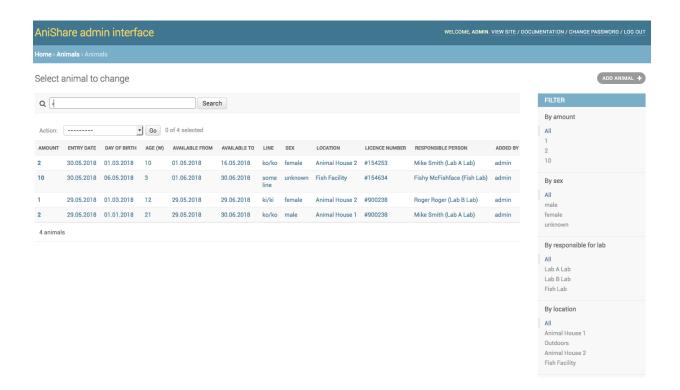
Click on Animals -> Add to add an animal.

Add animal



All fields in bold **need** to be filled in, the others are optional.

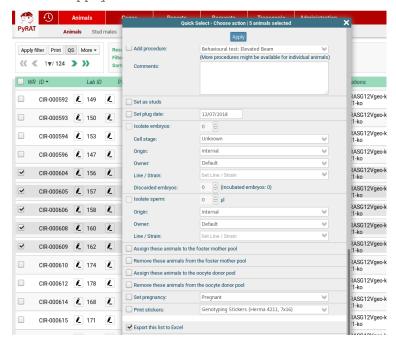
After adding several animals, the main (index) view should look like this:



6.2 Animals import

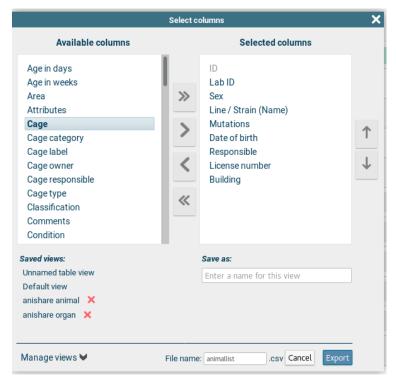
6.2.1 From PyRAT

First login to PyRAT and switch to the english version of PyRAT if it is no preset. Then select the animals which should be import to anishare. Click on QS (Quick Select) and activate the option Export this list to Excel. Push the button Apply.



Now it's important to select all mandatory fields: ID, Lab ID, Sex, Line / Strine (Name), Mutations, Date of birth, Responsible, License number, Building

It's possible to save the selected columns as a Manage View for reuse (fold out Manage View on the left side of the File name)



After downloading the file it's nessecary to edit the file because the coloumns **Animal type**, **Available from**, **Available to** are missing. To simplify this process there are macros for LibreOffice and MS Office. The macros automatically add the missing coloumns and add the values mouse (Animal type), Current Date (Available from), Current Date + 14 days (Available to). Please refer to the macro site to downloading the macros and further informations. .. Please add the mentioned columns (wherever) and fill it out. As **Animal type** the two values mouse or fish are possible. Please use the same date format for the coloumns **Available from**, **Available to** like at the exported coloumn **DOB** (Deate of birth).

Note: It's possible to add more than one entry at the field **Organ used**. Please use a comma as seperator like brain, bladder.

After adding the missing coloumns the file can be save, for example as xlsx file. Now go to the anishare admin interface to Home > Animals > Animals and click the button IMPORT (above the filter). Select the file and choose the file format. Upload the file. After submitting all datasets will show to the user if all requirements match.

6.2.2 From tick@lab

First login to *Tick@lab* and open the population site. All visible entrys can be exported with the button *Export to Excel*. It isn't yet possible to export only selected animals. Therefore use the filter option.



To import the file it's nessecary to do a lot of changes to the structure of the data. So please use the macro which do the changes automatic. Please refeer to the macro site to downloading the macro and further informations.

6.3 Add Organs manually

Click on Organs -> Add to add an organ. Add organ Amount: * How many organs? \$ Animal type: mouse unknown male female Sex: Select "unknown" if multiple animals. \$ Organ type: Today | ## Day of birth: Today | 🛗 Day of death: \$ Method of killing: Killing person: Email address of the person who is responsible for killing the animal Database id: ID of animal in eg. PYRAT Lab id: ID of lab in eg. PYRAT Line: genetic trait of animal

All fields in bold **need** to be filled in, the others are optional.

Where is the animal housed?

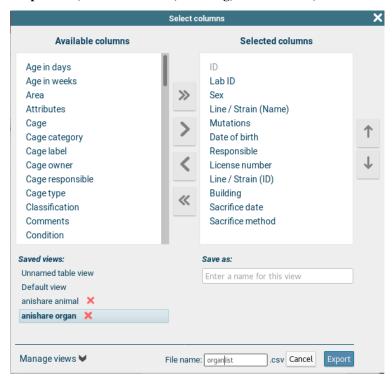
Location:

6.4 Organs import

6.4.1 From PyRAT

First login to PyRAT and switch to the english version of PyRAT if it is no preset. Then select the animals which should be import to anishare. Click on QS (Quick Select) and activate the option Export this list to Excel. Push the button Apply.

Now it's important to select all mandatory fields: ID, Lab ID, Sex, Line / Strine (Name), Mutations, Date of birth, Responsible, License number, Building, Sacrifice date, Sacrifice method



It's possible to save the selected columns as a Manage View for reuse (fold out Manage View on the left side of the File name)

After downloading the file it's nessecary to edit the file because the coloumns **Animal type**, **Available from**, **Available to** are missing. Furthermore the headings and the format of the coloumn **Responsible** needs to be adapt. To simplify this process there are macros for LibreOffice and MS Office. The macros automatically add the missing coloumns and add the values mouse (Animal type), Current Date (Available from), Current Date + 14 days (Available to). Please refeer to the macro site to downloading the macros and further informations.

After adding the missing coloumns the file can be save, for example as xlsx file. Now go to the anishare admin interface to Home > Animals > Animals and click the button IMPORT (above the filter). Select the file and choose the file format. Upload the file. After submitting all datasets will show to the user if all requirements match.

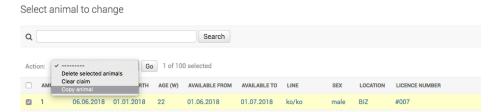
6.4.2 From tick@lab

Because we expect only a small quantity of importing organs from tick@lab it's only possible to add entries manually.

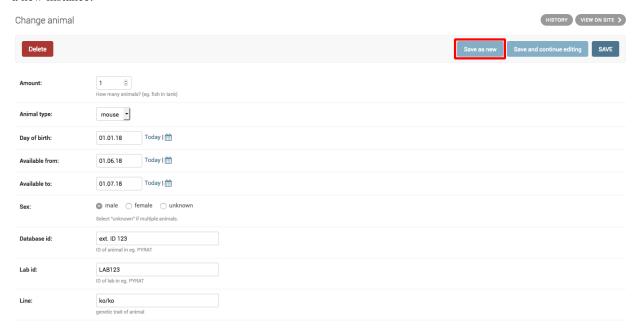
6.4. Organs import

6.5 Duplicating entries

For input of multiple similar entries, it is possible to duplicate an animal or organ entry. For this, select one or more entries in the list (see figure below) and select "copy animal" from the dropdown menu and click "Go".



Another option is to edit an existing animal and click on "Save as new". This will save the currently edited animal as a new instance:

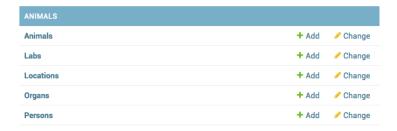




Main administrator tasks

The administrator can edit more objects in the admin interface, namely not just animals and organs but also labs, locations and persons:

Welcome to AniShare

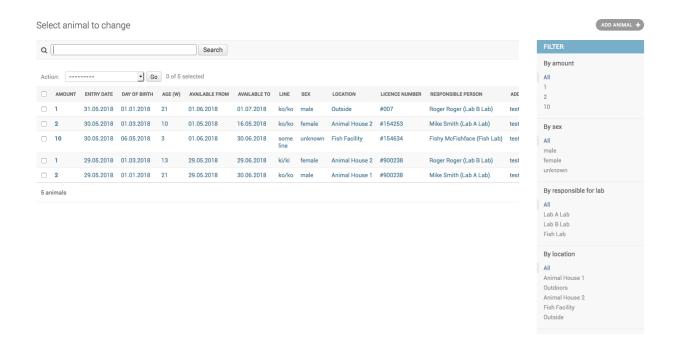


7.1 Organs used

These organs are standard values for the field **Organ used**.

7.2 Animals

The main category to administer are animals to share. Here, several filters (such as "sex", "location", etc.) are available to search for any set of animals.

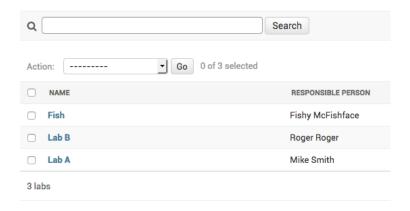


Note: in order to remove a claim (thus making the animal available again), either click on an animal and remove the email address from the field "new owner", or select one or multiple animals and select the "clear claim" *Action* and click "Go".

Note: Once created, an animal cannot be deleted, except by the administrator.

7.3 Labs

Labs are research labs/research groups and need to have at least one responsible/contact person each Select lab to change



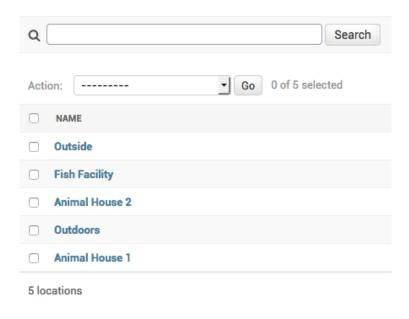
Note: Only administrators are allowed to see and change Labs

7.3. Labs 16

7.4 Locations

Locations are where animals are stored. Usually something like room numbers or "animal house" or "fish facility".

Select location to change

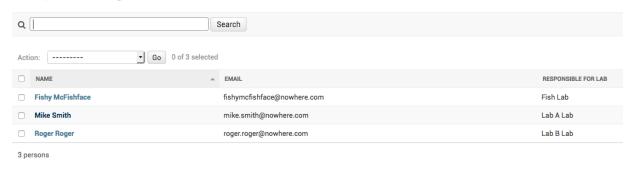


Note: Only *administrators* are allowed to see and change Locations

7.5 Persons

Persons responsible for the animals. Could be a vet or similar. Every animal needs to have a responsible person associated to them. This person then gets an email when the animal is being claimed.

Select person to change

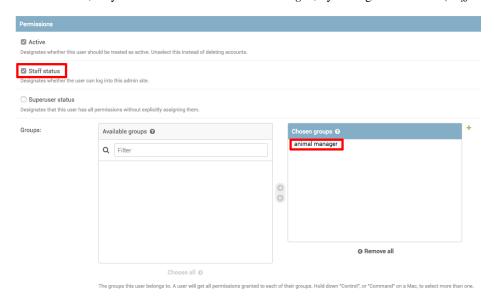


Note: Only administrators are allowed to see and change Persons

7.4. Locations 17

7.6 Make a user an animal manager

The *administrator* is also responsible for user/rights management. In order to be able to add/edit animals, a user has to be in the group *animal manager* and have *staff status* in the django admin interface. For this, an *administrator* has to go to the user management in the admin interface by clicking "Home" -> "Authentication and Authorization" -> "Users". Here, they can make a *user* an *animal manager*, by setting these values (*staff* and group *animal manager*):



7.7 Anishare change history

New functions and bugfix at the system should be documented. So users can be informed about changes on the system. All changes are visible to authenticated users. Please refeer to the site AniShare Change History to see all changes. Furthermore it's possible to subscribe to the Anishare Version Feed to stay informed.