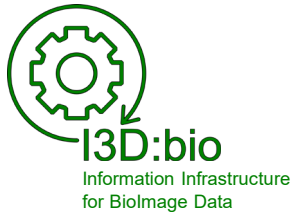# Research Data Management for Bioimage Data at the HHU

What are user groups and permission levels in OMERO?

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I3D:bio
Information Infrastructure
for BioImage Data

hhu Heinrich Heine Universität Düsseldorf

User groups in OMERO and where to find them

Find the groups and group members in OMERO.web
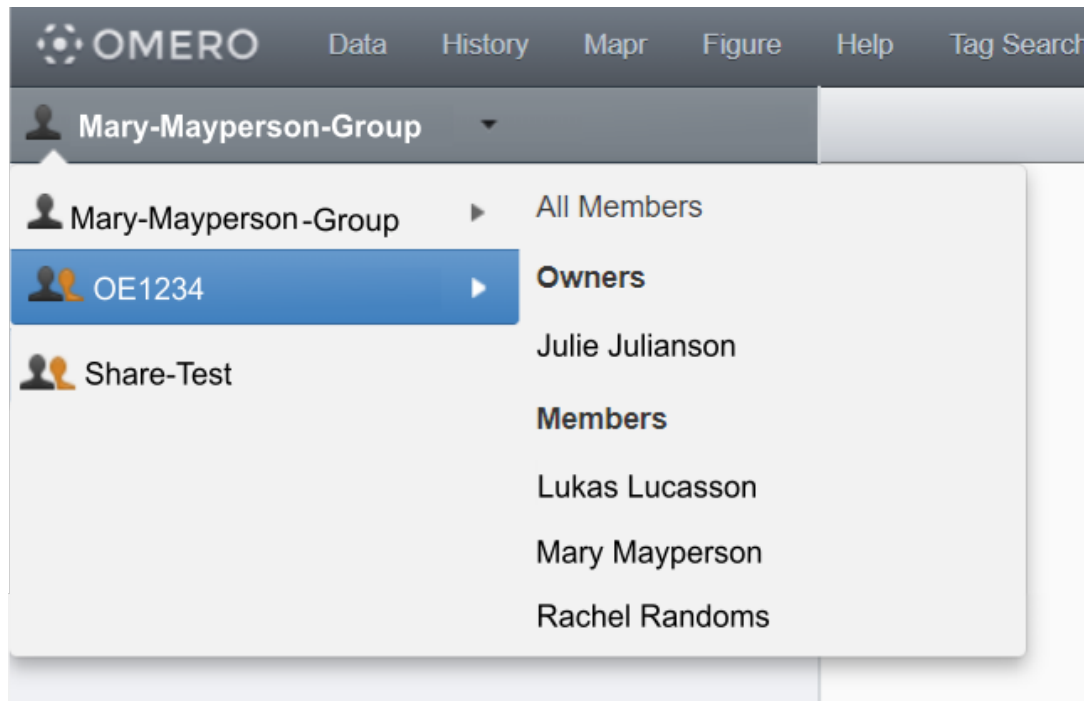
Prof Julie

Rachel

Mary

Lukas

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Which types of user groups exist in OMERO?

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Rachel

Mary

Lukas

- Uploaded data belongs to a specific user in a specific group

- In user groups, the users have different roles:

  - Group owner (one or more)

  - Group members

- The OMERO administrator has access to all groups

- Group owners can change group permission levels

Group permission levels

Private	Read-only
Read-Annotate	Read-Write

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Group permission levels overview:

Private

Members can only see their own data. The owner can see all data. Good for data storage, but limits any collaboration.

Read-only

Members can see everyone's data, but not annotate, edit, or delete other's data. Owner has more rights.

Read-Annotate

Members can view and annotate other's data, but not edit or delete it. Owner has extended rights.

Read-Write *Can only be granted by an admin!*

Members can view, annotate, edit or delete other's data. Used as if all members co-own all data. Strong collaboration with high level of trust.

For details see: https://omero.readthedocs.io/en/stable/sysadmins/server-permissions.html

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Data sharing in groups & permissions

Which permissions exist?
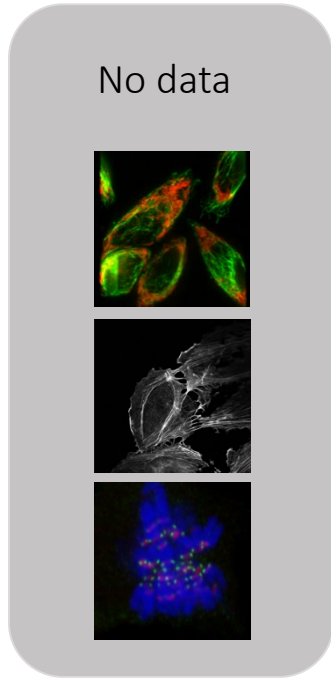## Group type: **private**

OMERO
data / uploaded by

Prof Julie
(owner)

Rachel

Mary

Lukas

No data

View

Annotate

Edit or
delete

For details see: https://omero.readthedocs.io/en/stable/sysadmins/server-permissions.html

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Data sharing in groups & permissions

Which permissions exist?
Group type: **Read-only**
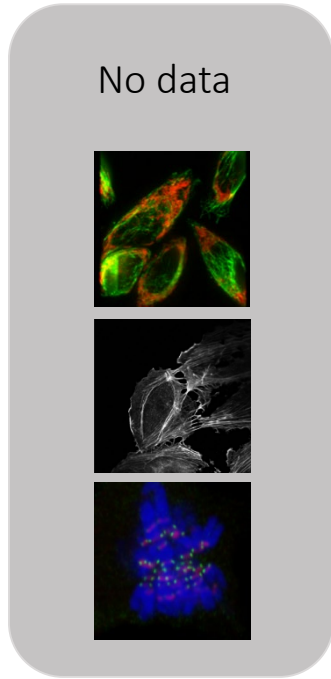
OMERO
data / uploaded by

No data

Prof Julie
(owner)

Rachel

Mary

Lukas

View

Annotate

Edit or
delete

For details see: https://omero.readthedocs.io/en/stable/sysadmins/server-permissions.html

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Data sharing in groups & permissions

Which permissions exist?
Group type: Read-Annotate
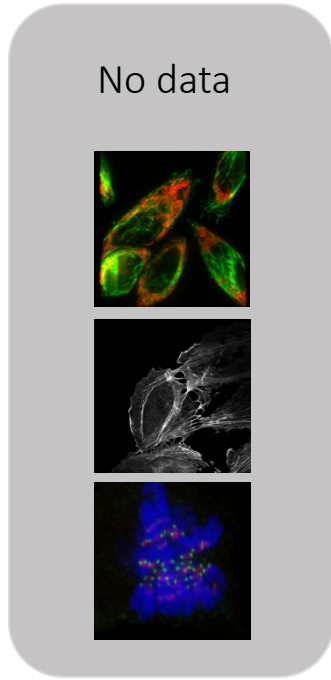
OMERO
data / uploaded by

Prof Julie (owner)

Rachel

Mary

Lukas

No data

View

Annotate

Edit or delete

p 7

For details see: https://omero.readthedocs.io/en/stable/sysadmins/server-permissions.html

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Data sharing in groups & permissions

Which permissions exist?
Group type: **Read-Write**
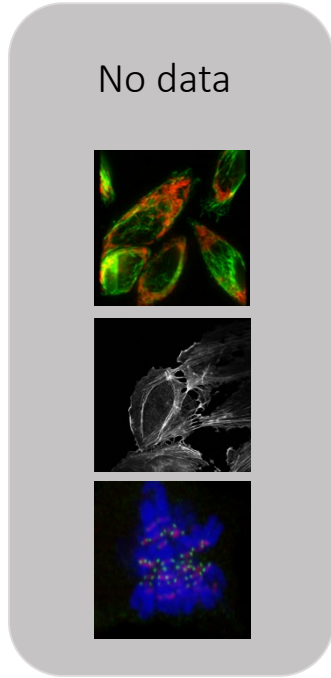
OMERO
data / uploaded by

Prof Julie
(owner)

Rachel

Mary

Lukas

No data

View

Annotate

Edit or
delete

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Group rights and their effect on data handling

Very important / Warning !!!

1) It is possible to move Projects or Datasets to another group.

Beware that if the target group has a more restrictive permission level than the source group, **all user-based annotations may be lost without warning!** Review the OMERO guides and test the procedure with unimportant test folders before moving annotated datasets!
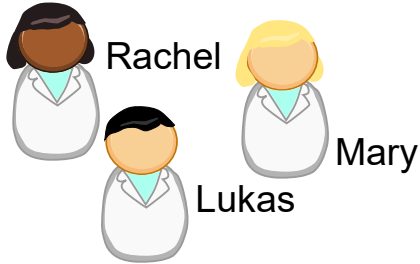
2) Downgrading the permission level of a group to more restrictive leads to **loss of all user-based annotations** except those of the data owner.

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OMERO – Default user groups at the HHU

owner

Prof Julie

members

Rachel

Mary

Lukas

👥 **OE1234** ▸	**Owners**
👥 Share-Test	Julie Julianson
	Members
	Lukas Lucasson
	Mary Mayperson
	Rachel Randoms

Default group 1:

- According to „Arbeitsgruppe"

  - PI (with group owner rights)

  - All OMERO users of the same organisational unit are members

  - Group name: Equals the Arbeitsgruppe (AG_####)

  - Group type: **Read-Annotate** (can be changed by owner)

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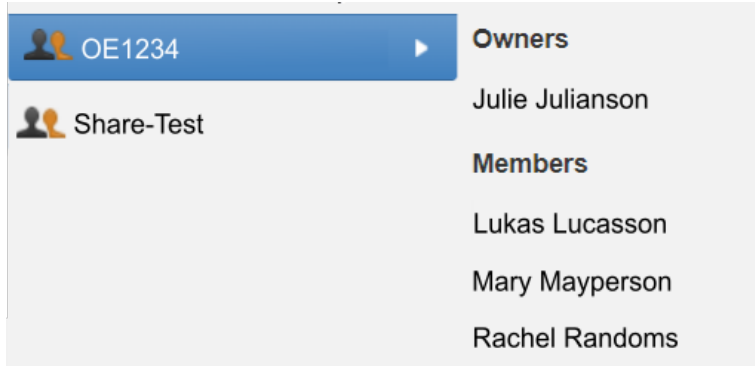
OMERO – Default user groups at the HHU

owner   **members**

Mary

as invited by
the owner
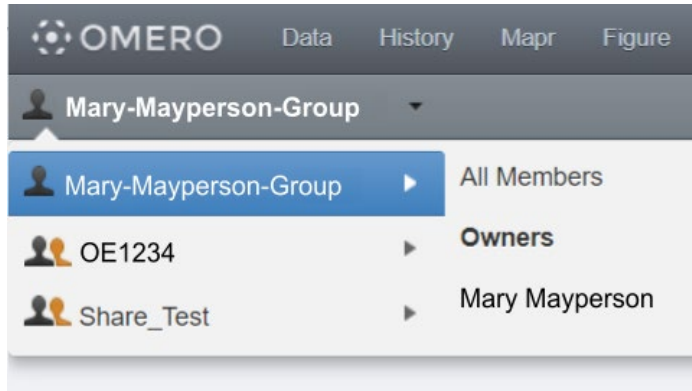
Default group 2:

- Personal group of each researcher

  - Researcher (with group owner rights)

  - Owner can invite other members

  - Group name:

    „Firstname-Lastname-Group"

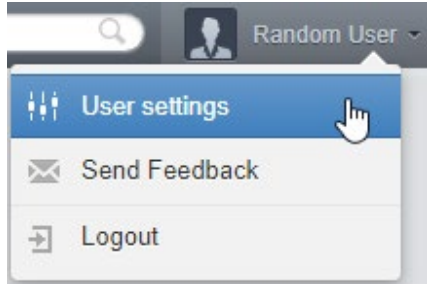 - Group type: **Private**
    (can be changed by owner)

OMERO – Group administration

If specific other groups are required,
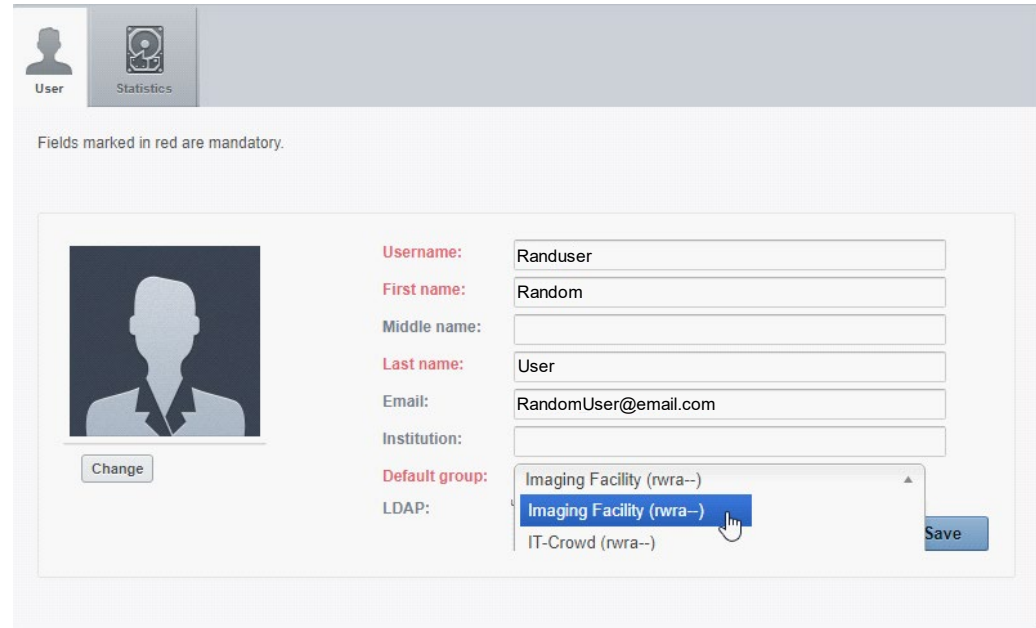
please contact the OMERO administrator

Change group settings in OMERO (here: as *member* in different groups)

1) Upper right corner (OMERO.web)

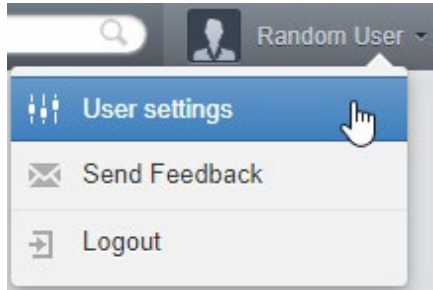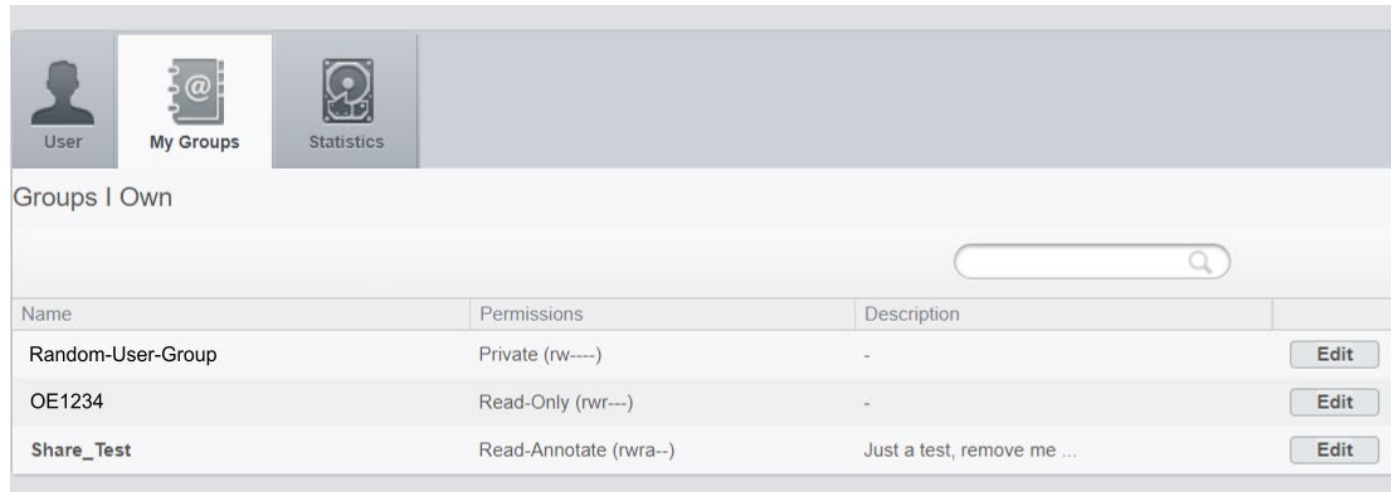## 2) See user settings and choose default group

Change group settings in OMERO (here: as *group owner*)

1) Upper right corner (OMERO.web)

2) See group settings and edit as needed

OMERO – Default group for new users

- New users are allocated to the "default" group

- The OMERO administrator will move you to your PI's group

- **NOTE:** *Do not upload data to OMERO before you are sure to be in the correct group!*

- Change your user settings to set your default group

Contact

Please review the additional information material available on the website:

https://wiki.hhu.de/display/CAi/OMERO+usage

Contact:

- tom.boissonnet@hhu.de (OMERO administrator)

- stefanie.weidtkamp-peters@hhu.de (Light Microscopy Core Facility)

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