I3D:bio OMERO user training slides

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- This work is funded by the Deutsche Forschungsgemeinschaft (DFG, German Research Foundation) – 462231789 (Information Infrastructure for BioImage Data, I3D:bio)

Disclaimer
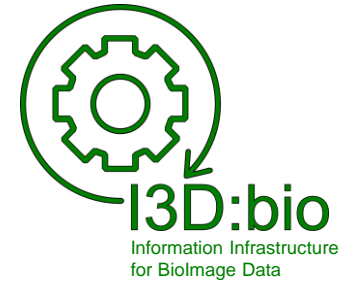
- The following slides are intended for reuse after <mark>substituting yellow-marked text</mark> with the relevant information at your institute.
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I3D:bio
Information Infrastructure
for BioImage Data

https://www.i3dbio.de

Funded by the Deutsche Forschungsgemeinschaft (DFG, German Research Foundation), project I3D:bio, grant number 462231789

I3D:bio
Information Infrastructure
for BioImage Data

Research Data Management for Bioimage Data at the ADD INSTITUTE HERE

Data organization: Search Function
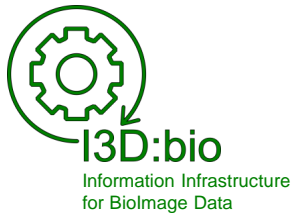
ADD AUTHOR / RESPONSIBLE PERSON FROM YOUR INSTITUE

I3D:bio
Information Infrastructure
for BioImage Data

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Tags and Key-Value Pairs in OMERO (recommendations)

Tags and Key-Value Pairs can be added to:

- Images
- Groups of Images
- Datasets
- Projects

Tags are linked to users or groups

Advanced users:
Annotate Tags and Key-Value Pairs
using ontologies and ontology terms
(see Chapter on Metadata Curation)

I3D:bio recommendation:

- Use tags for data organization across datasets and projects (categorization)
  - can substitute deep folder hierarchies
- Use Key-Value Pairs for metadata enrichment

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Tags and Key-Value Pairs (here: in OMERO.web)

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Filter Datasets for Tags and Key-Value Pairs (here: in OMERO.web)

At the Dataset-level, use filters to show a set of images based on Key-Value-Pairs or Tags
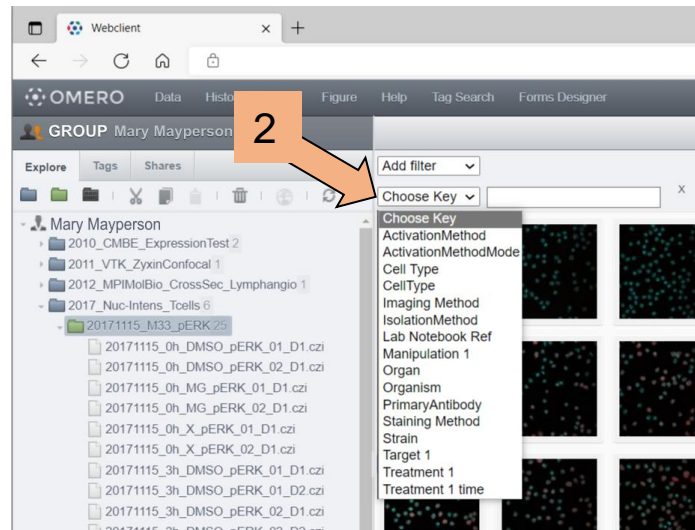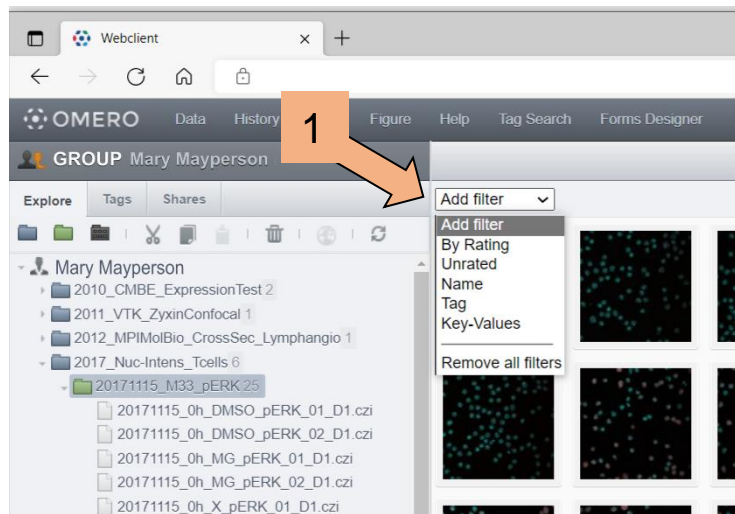
Example shown here: Filtering by Key-Values
(also showing which Keys were used on this Dataset)

(You can also filter by Name or Rating)

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Search function to find data, e.g., based on Tags or Key-Value Pairs 1/3

Use the *Search* field to look for data across

- Users
- Groups
- Projects
- Datasets
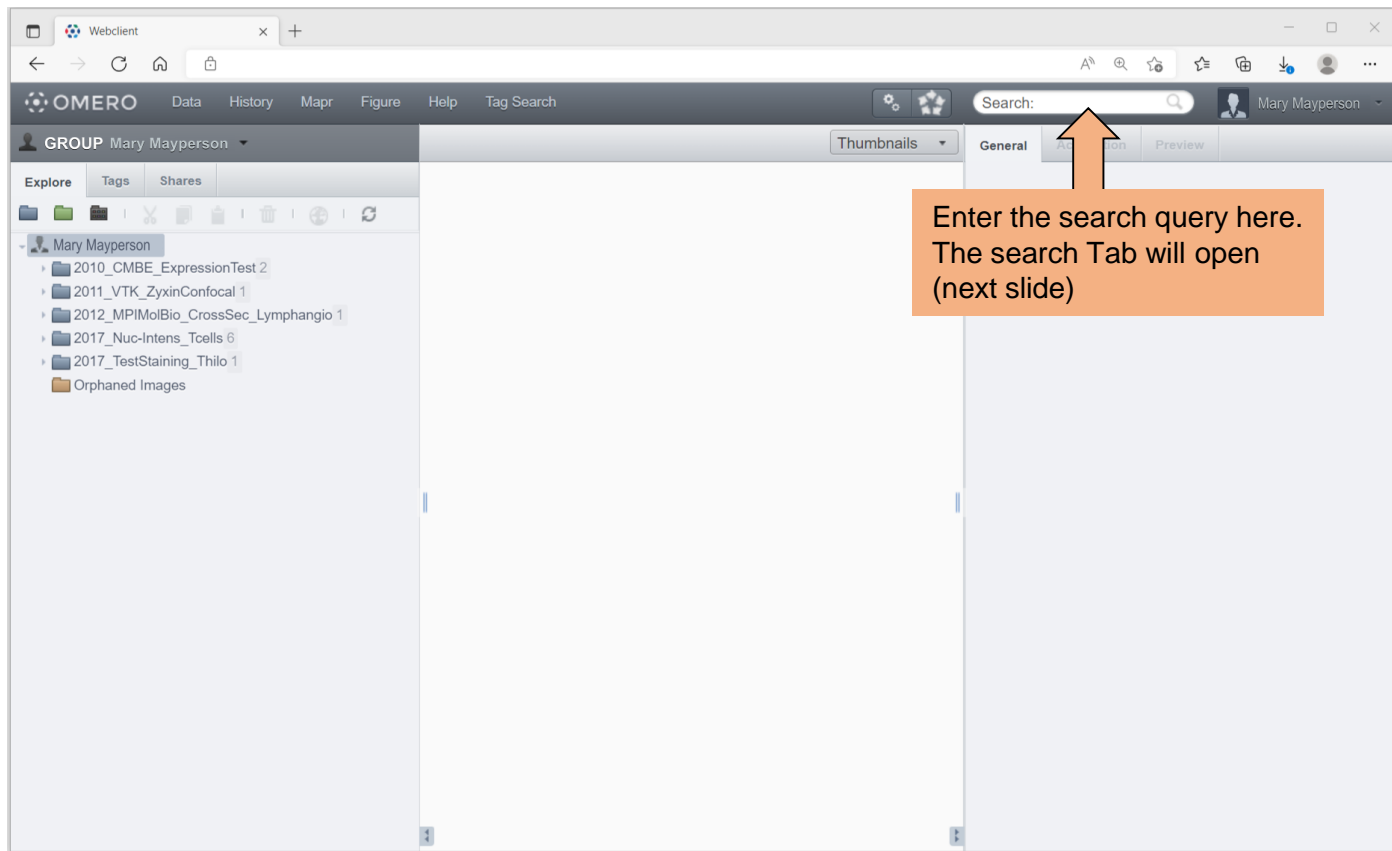
Enter the search query here. The search Tab will open (next slide)

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Search function to find data, e.g., based on Tags or Key-Value Pairs 2/3

Refine your
search query

Optional:
Restrict for which
fields you wish to
search

Example 1:
Search for images
with both **Tags**

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Search function to find data, e.g., based on Tags or Key-Value Pairs 3/3

Refine your search query

Optional:
Restrict for which fields you wish to search

Example 2:
Search for images with specific value in **Key-Value Pairs**

p 9

https://omero-guides.readthedocs.io/en/latest/introduction/docs/search-omero.html (last access: 2023-08-23)

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No need to search – Use Tags for dynamic data re-organization (1/3)

If you have annotated your data with Tags, use the

Tags

tab to view files based on the Tags

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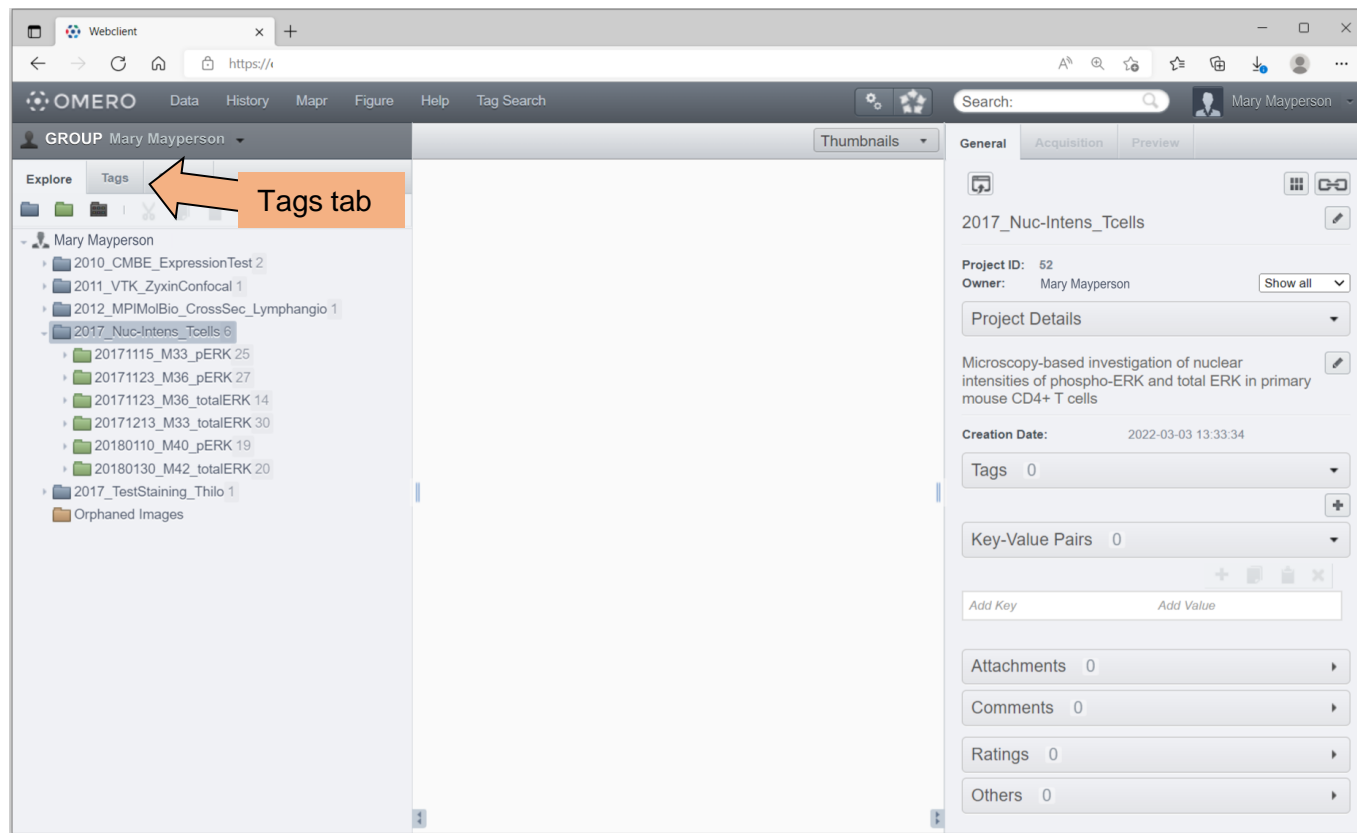
No need to search – Use Tags for dynamic data re-organization (2/3)

The Tags tab allows for a dynamically re-organized data-tree representation based on your Tags

→ Advantage over deep folder hierarchies

Dynamically show all DMSO-control treated samples across Datasets and Projects

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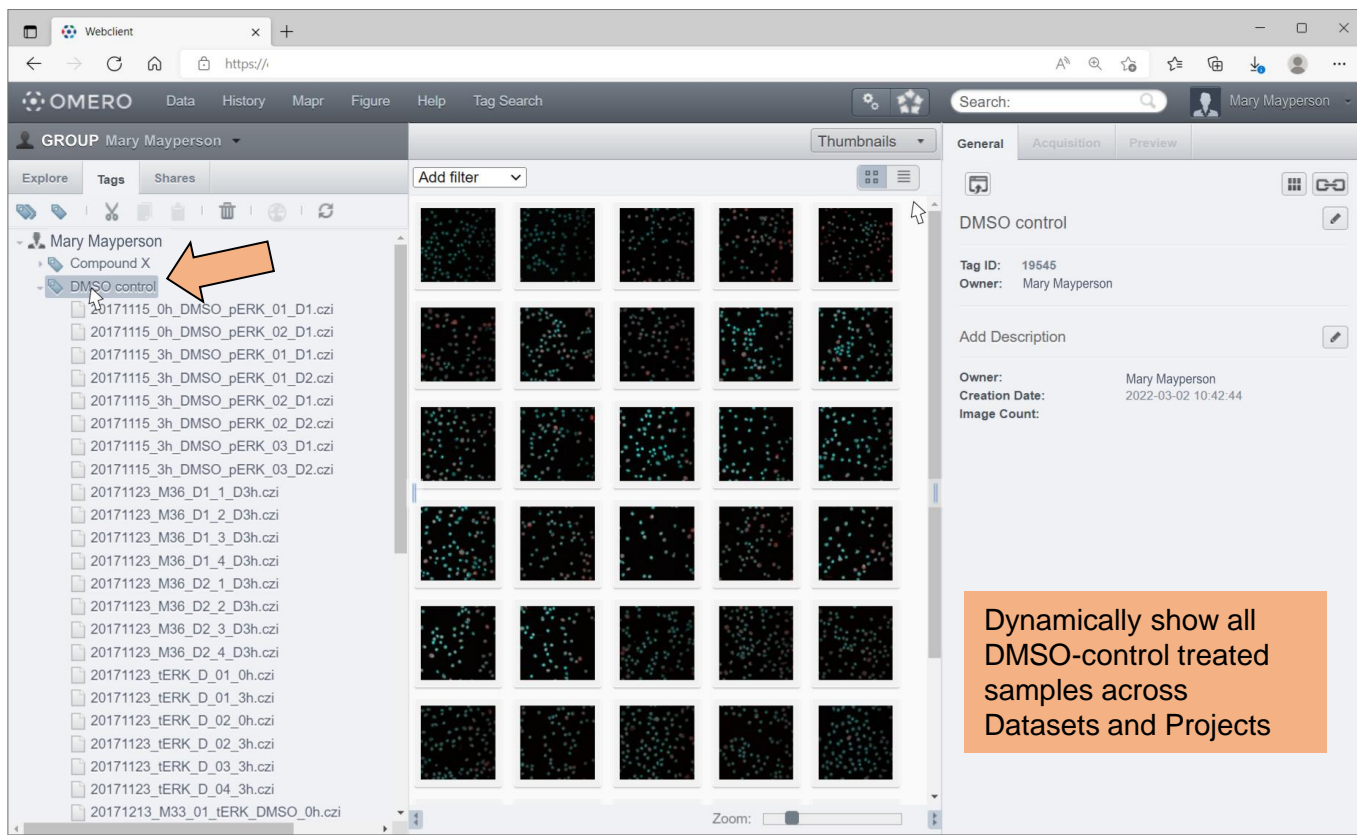
Using Tag Search (OMERO.webtagging extension)

Tag Search allows combining tags (if it is installed)

Example: Review all images from control-treated samples for the staining target across repetitions

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Using Tag Search (OMERO.webtagging extension) – create figures

Example:
Use the Tag Search results to prepare a comprehensive figure using OMERO.figure

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Using Tag Search (OMERO.webtagging extension) – quick split view

Example:
Use the Tag Search results to produce a quick comparative figure of the Split View

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Using Tag Search (OMERO.webtagging extension) – quick split view

More information on the search syntax in OMERO:

See the OMERO guides:

https://omero-guides.readthedocs.io/projects/introduction/en/latest/search-omero.html

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