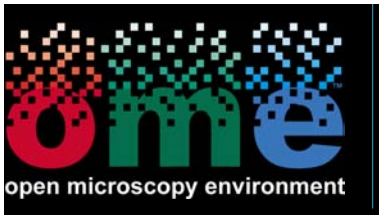
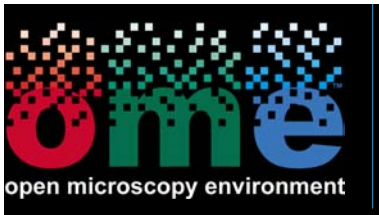


Welcome!!!

The 6th OME Users Meeting

Institut Pasteur, Paris



Thank you!!!

Christiane Pacaud

Spencer Shorte

open microscopy environment

Thank you!!!

Agenda

15 min: Project overview
Jason

45 min: Last 2 years
OME Team

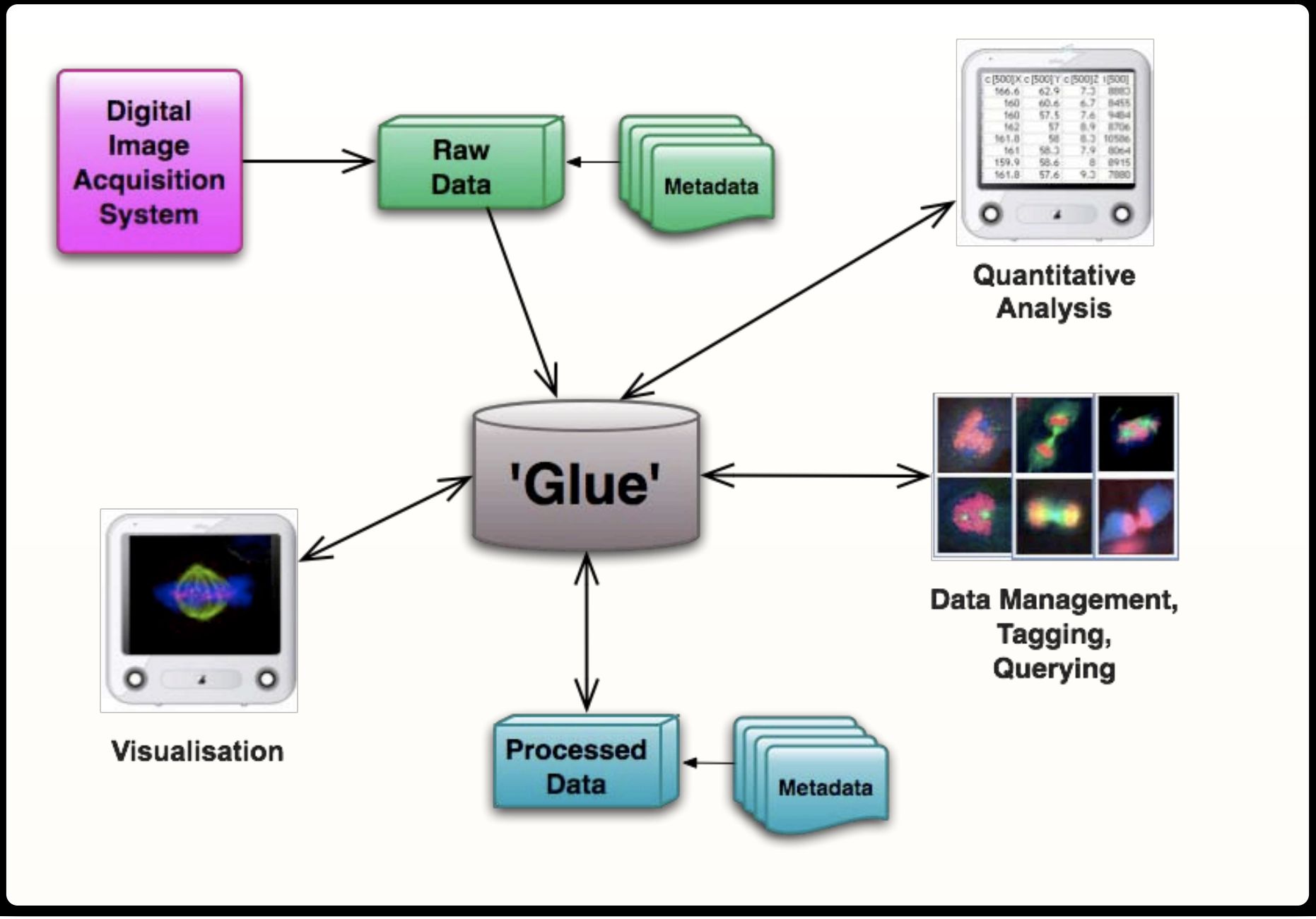
15 min: Discussion

Introducing....

Introducing....

...and the ImageJDev Team

OME: What we do...



What's this mtg for?

"Annual Report"

Building the Consortium

OME-TIFF and Bio-Formats: Moving the standard forward

Demos, Docs, and Installs

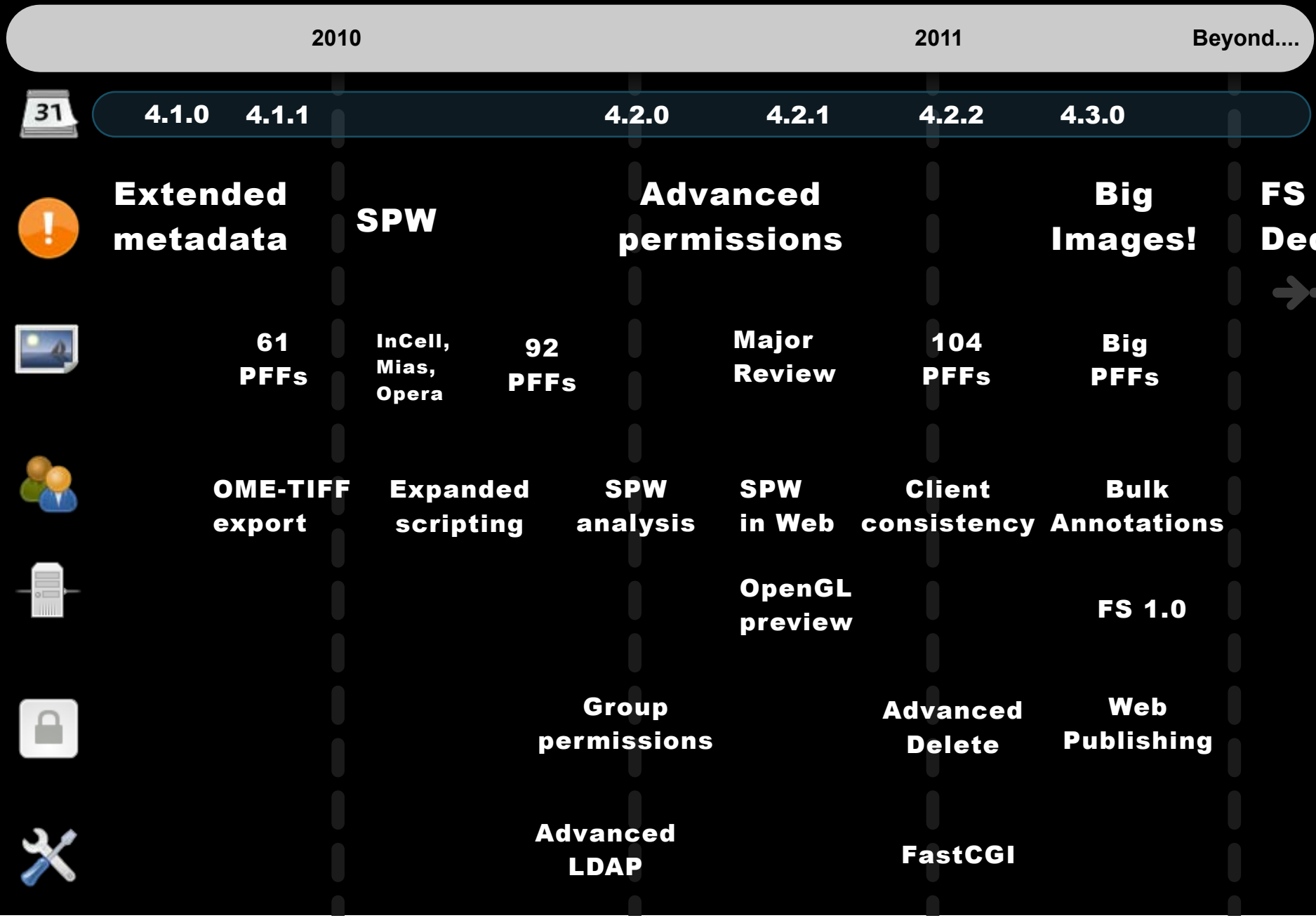
Roadmap

Use cases for analysis integration

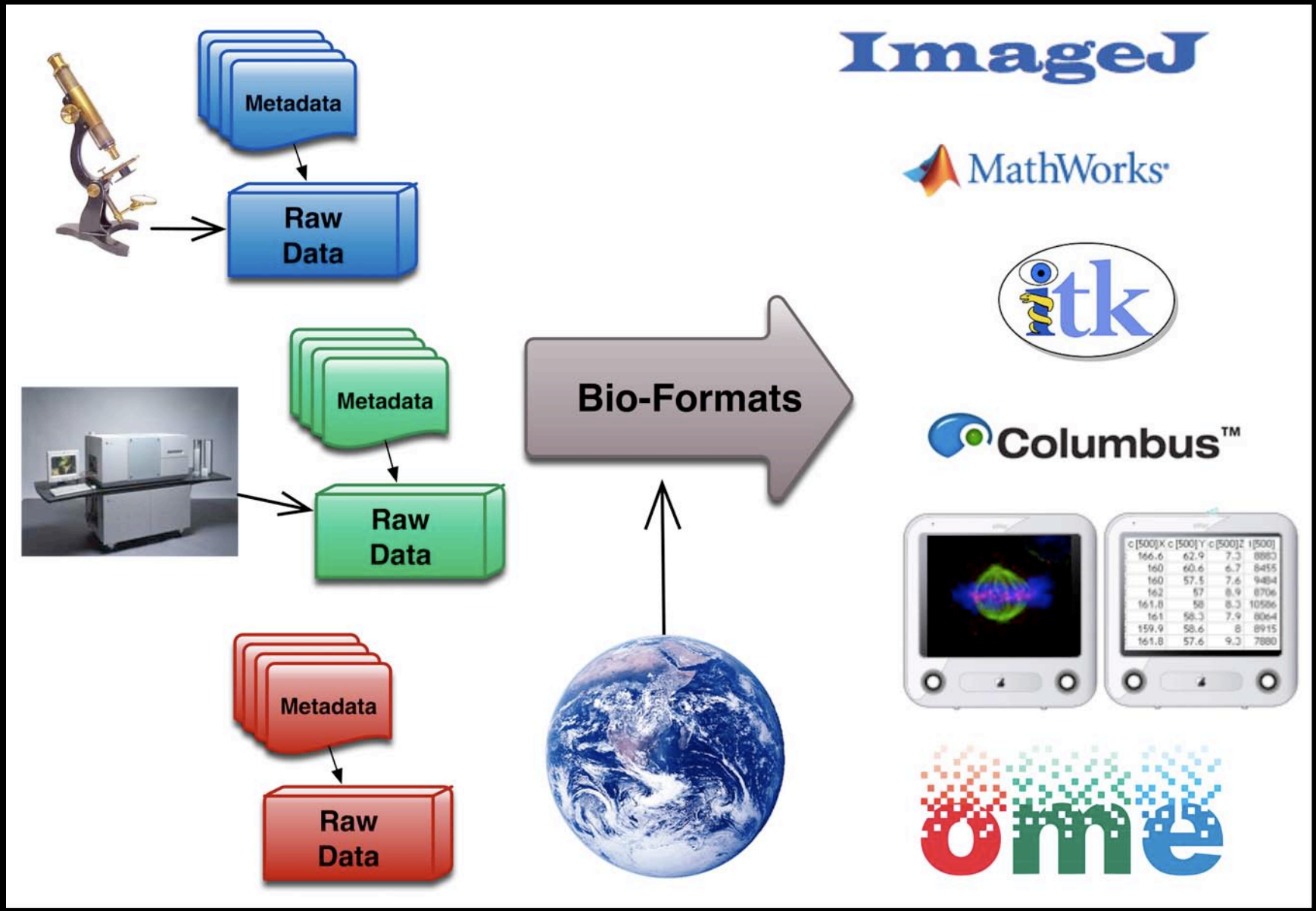
More feedback, criticism, comments….

More collaboration…

Release timeline 4.1 - 4.3



Bio-Formats 4.3

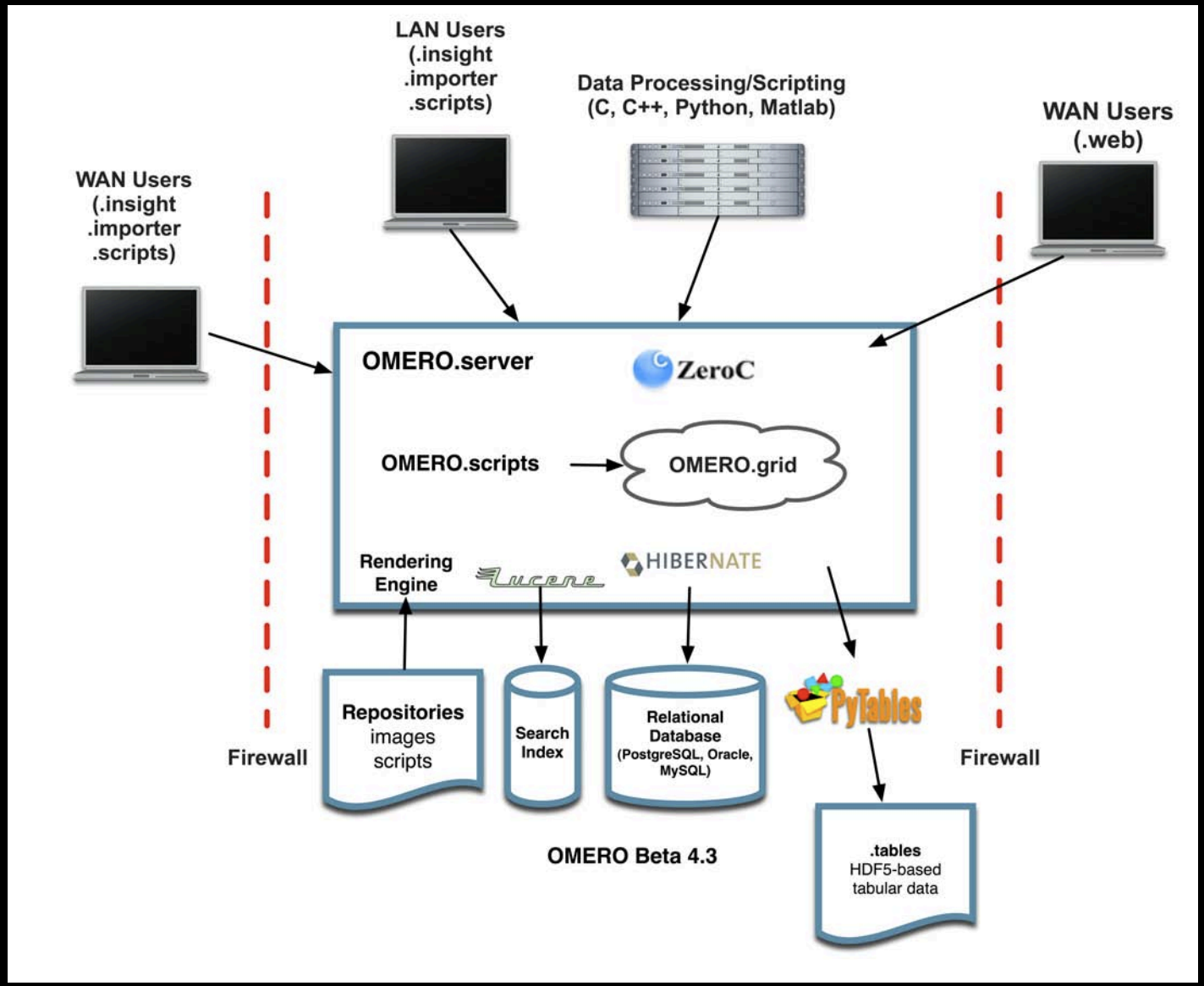


Bio-Formats 4.3

New File Formats InCell 3000, NanoZoomer, Trestle, Olympus VSI, and Volocity (!!!)

.....and a whole lot of fixes and suggestions from the community

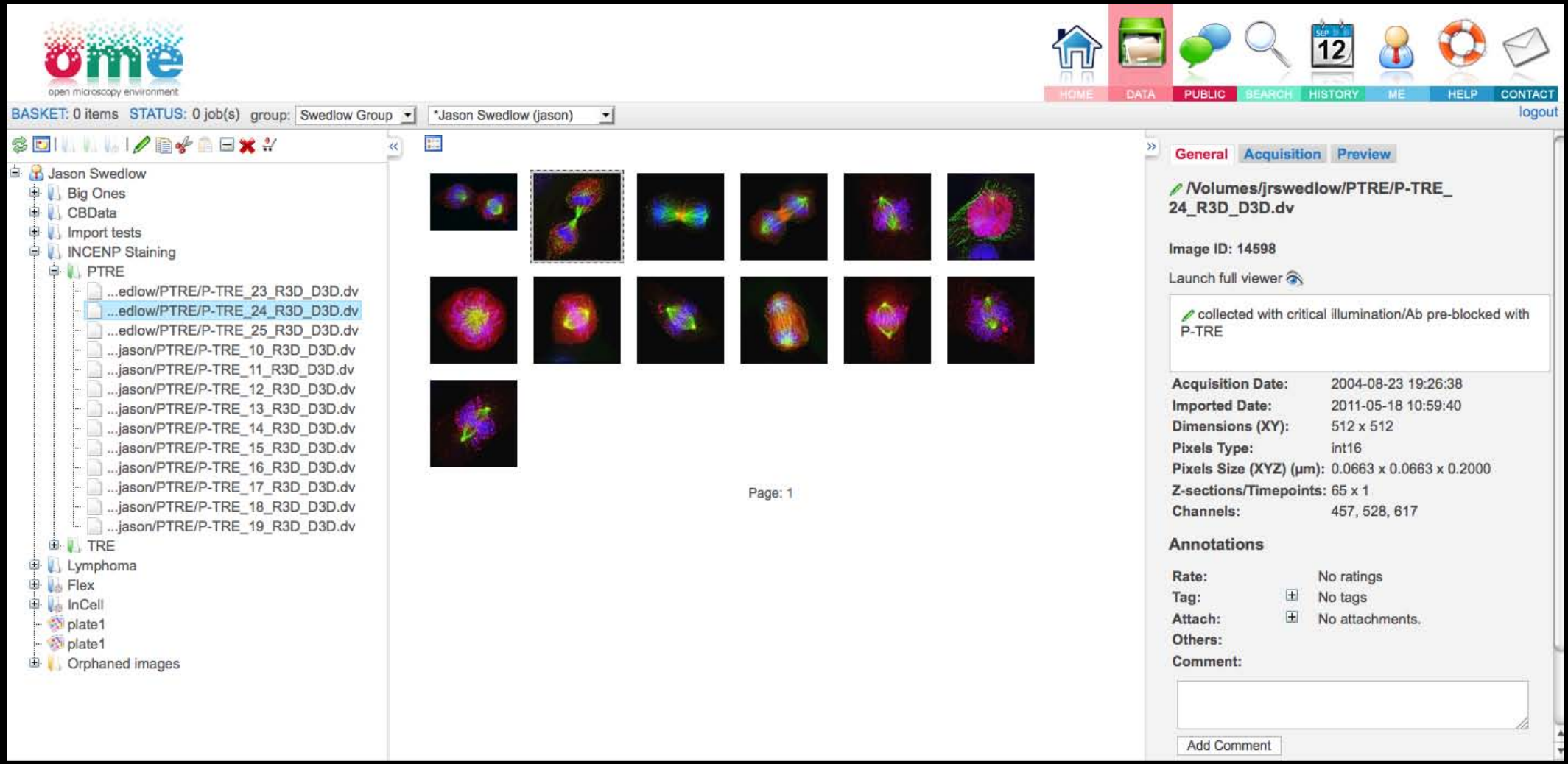
OMERO 4.3


LAN Users
(.insight
.importer
.scripts)
Data Processing/Scripting
(C, C++, Python, Matlab)
WAN Users
(.web)
WAN Users
(.insight
.importer
.scripts)
OMERO.server
ZeroC
OMERO.scripts
OMERO.grid
Rendering
Engine
lucene
HIBERNATE
Repositories
images
scripts
Search
Index
Relational
Database
(PostgreSQL, Oracle,
MySQL)
PyTables
Firewall
Firewall
OMERO Beta 4.3
.tables
HDF5-based
tabular data

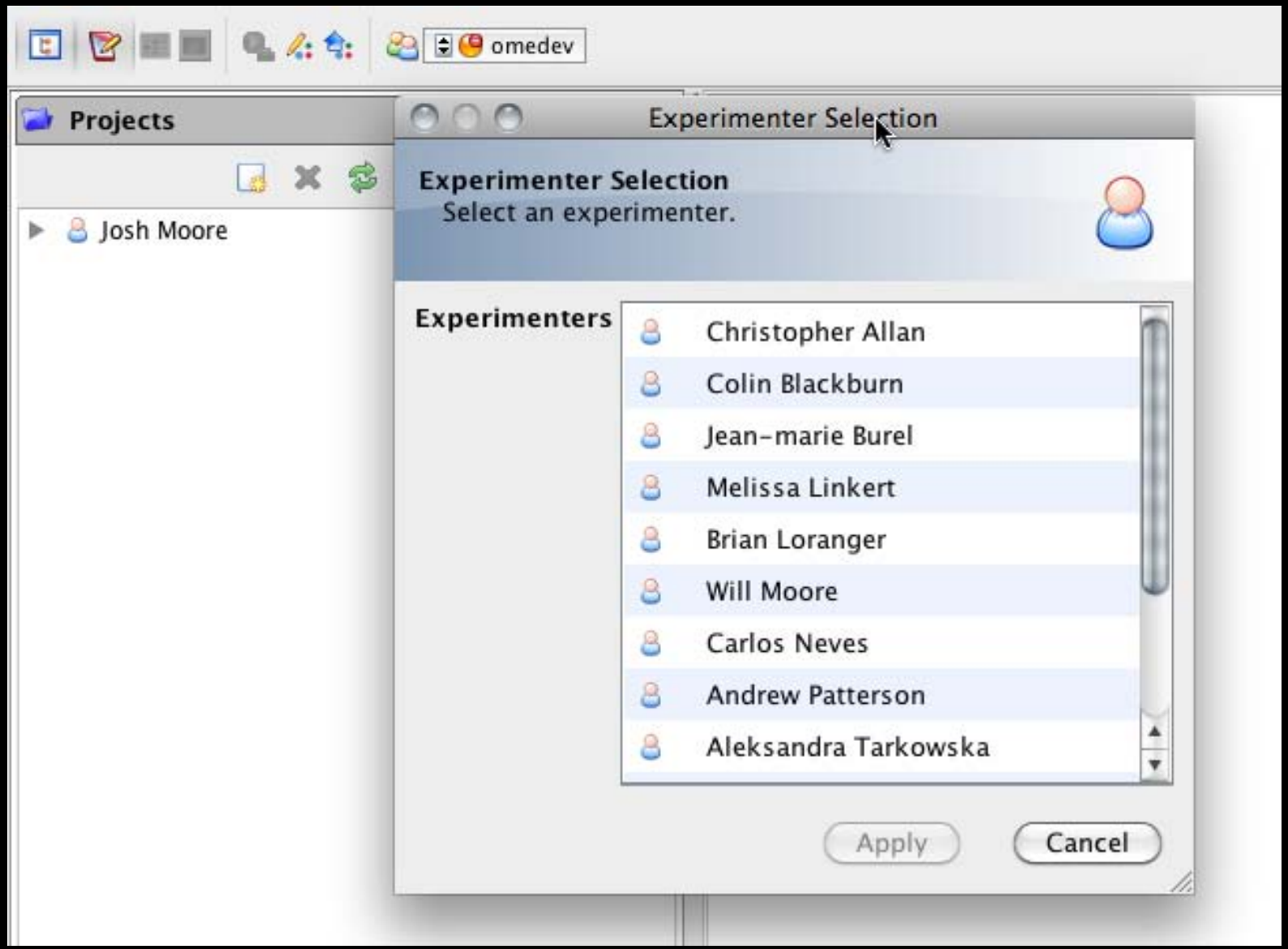
Primary Emphasis 4.1 - 4.3

Extended metadata	Read PFFs more thoroughly
Group permissions	Removing private limitation from 4.0
SPW Model	Support for HCS
Big images	Beyond the 4k X 4k limit!
Client Clean-up	Consistency!!!!!
API Clean-up	Python....

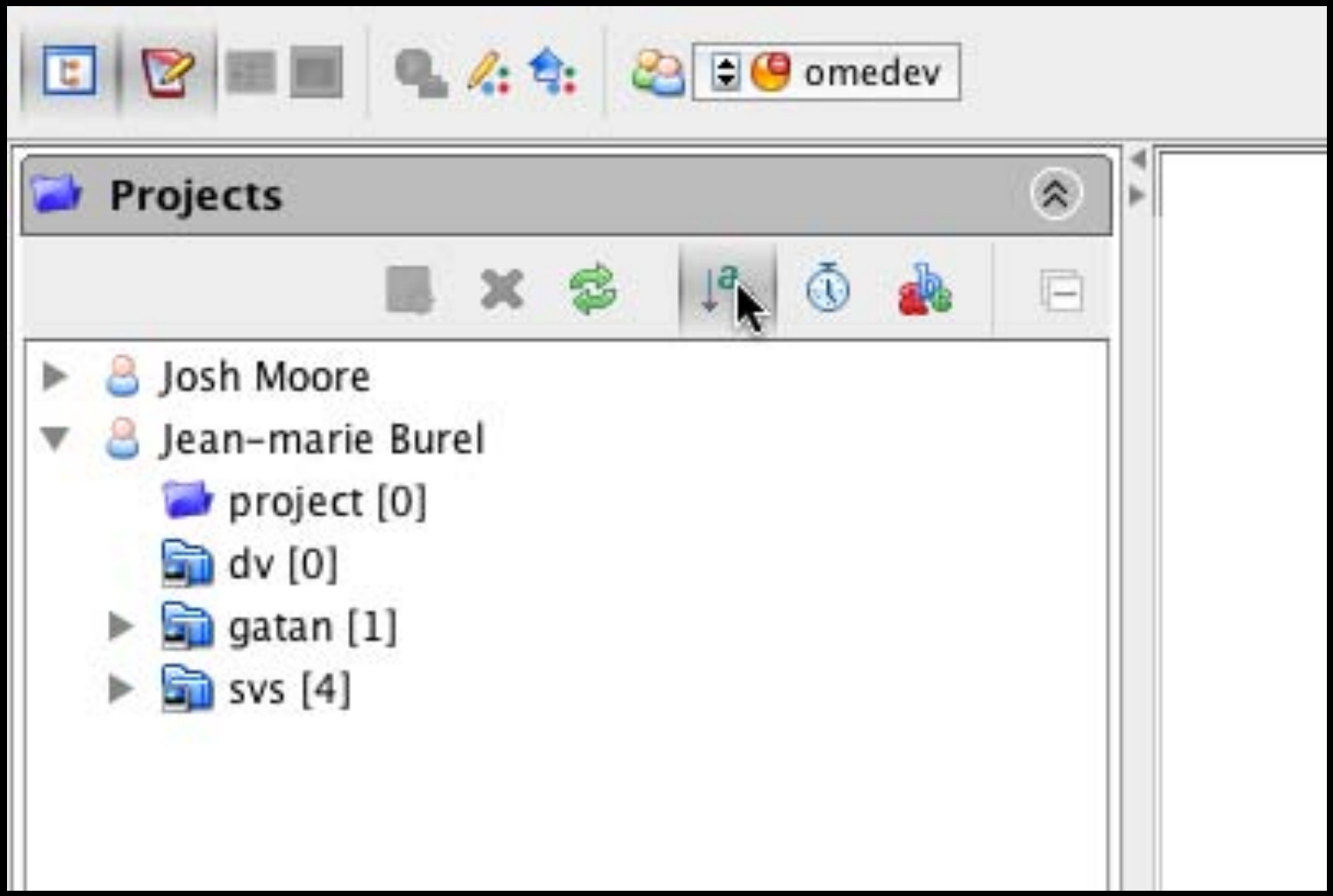
Extended Metadata



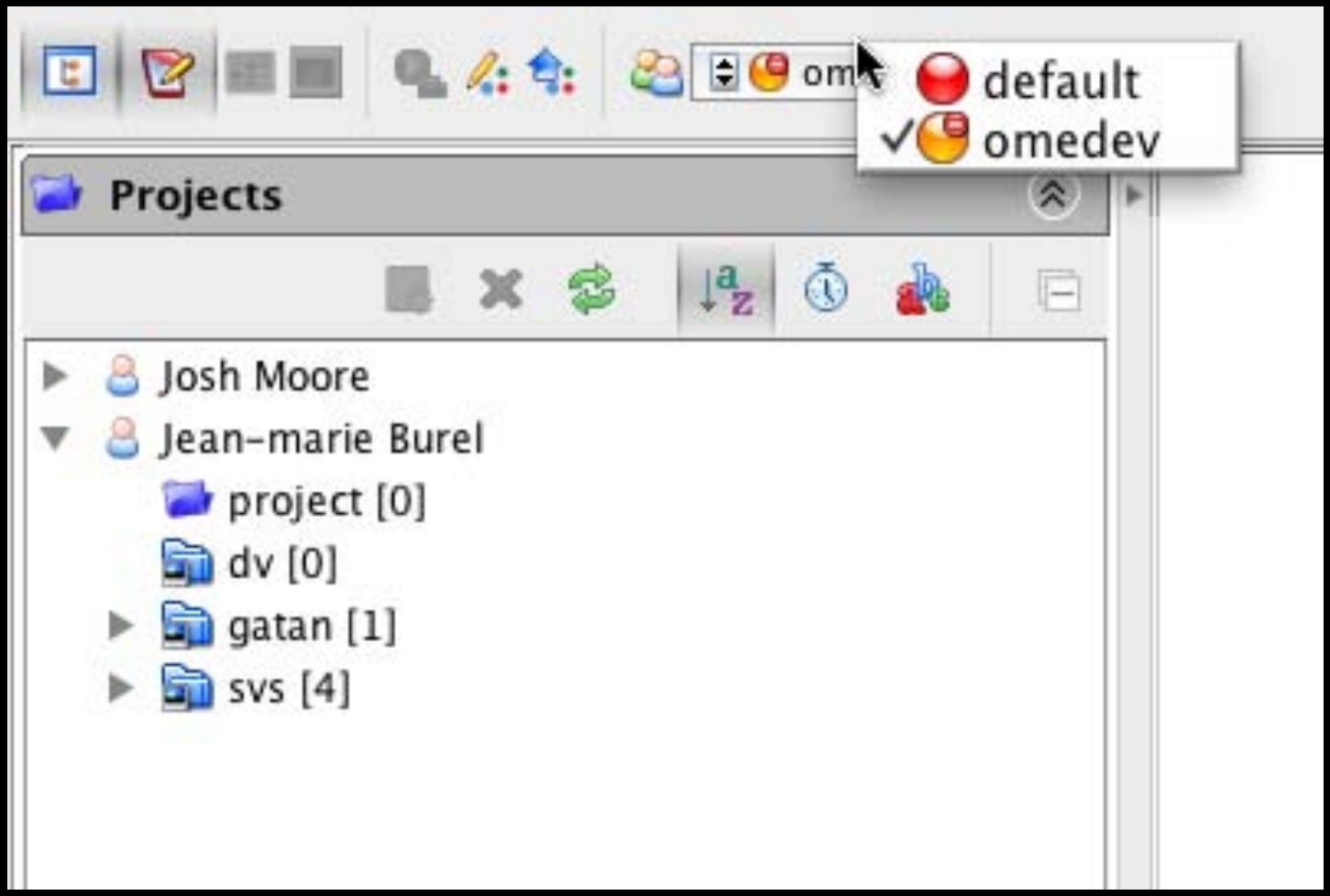
... for scientists and developers



... for scientists and developers

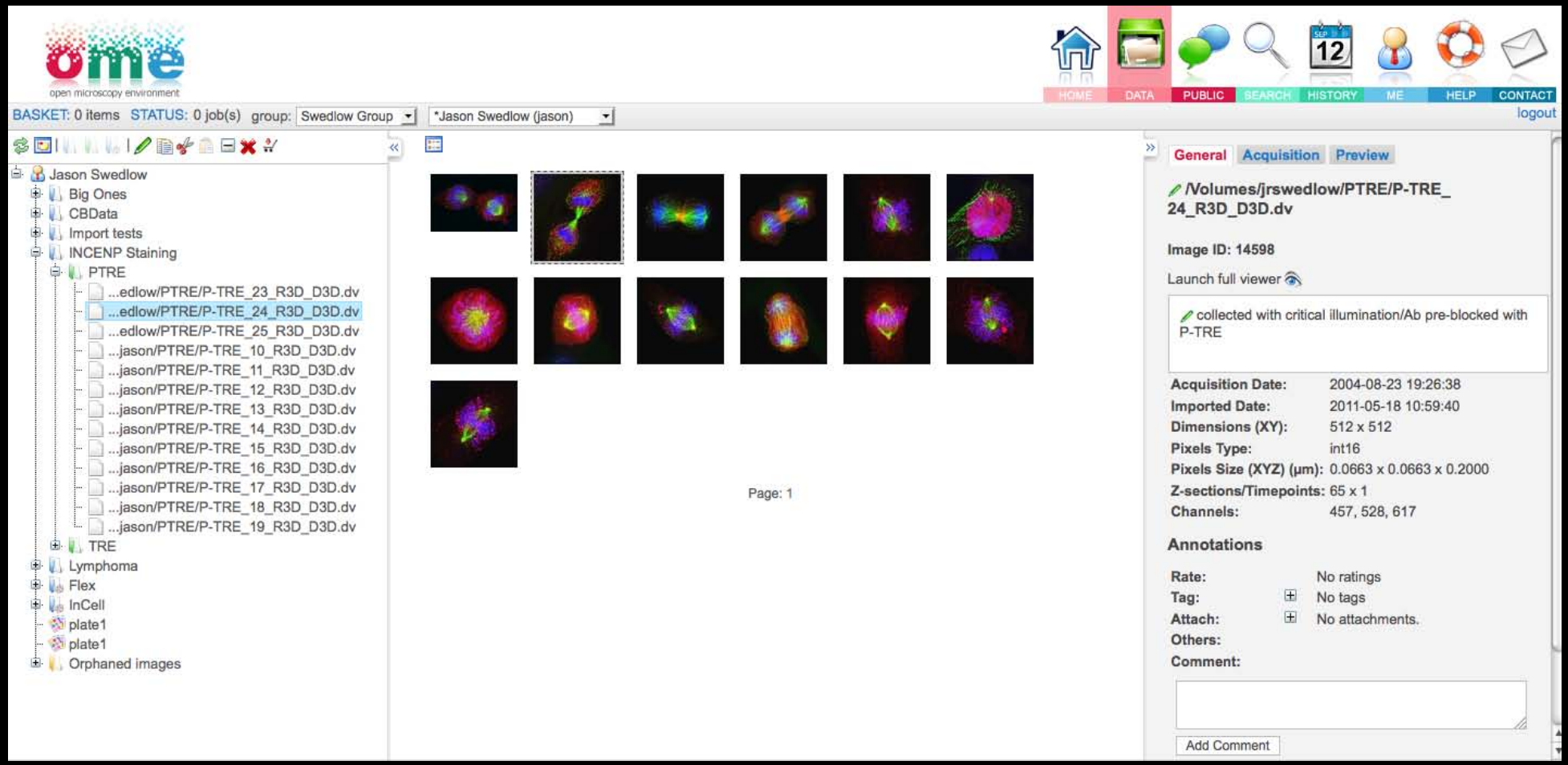


... for scientists and developers



... for scientists and developers

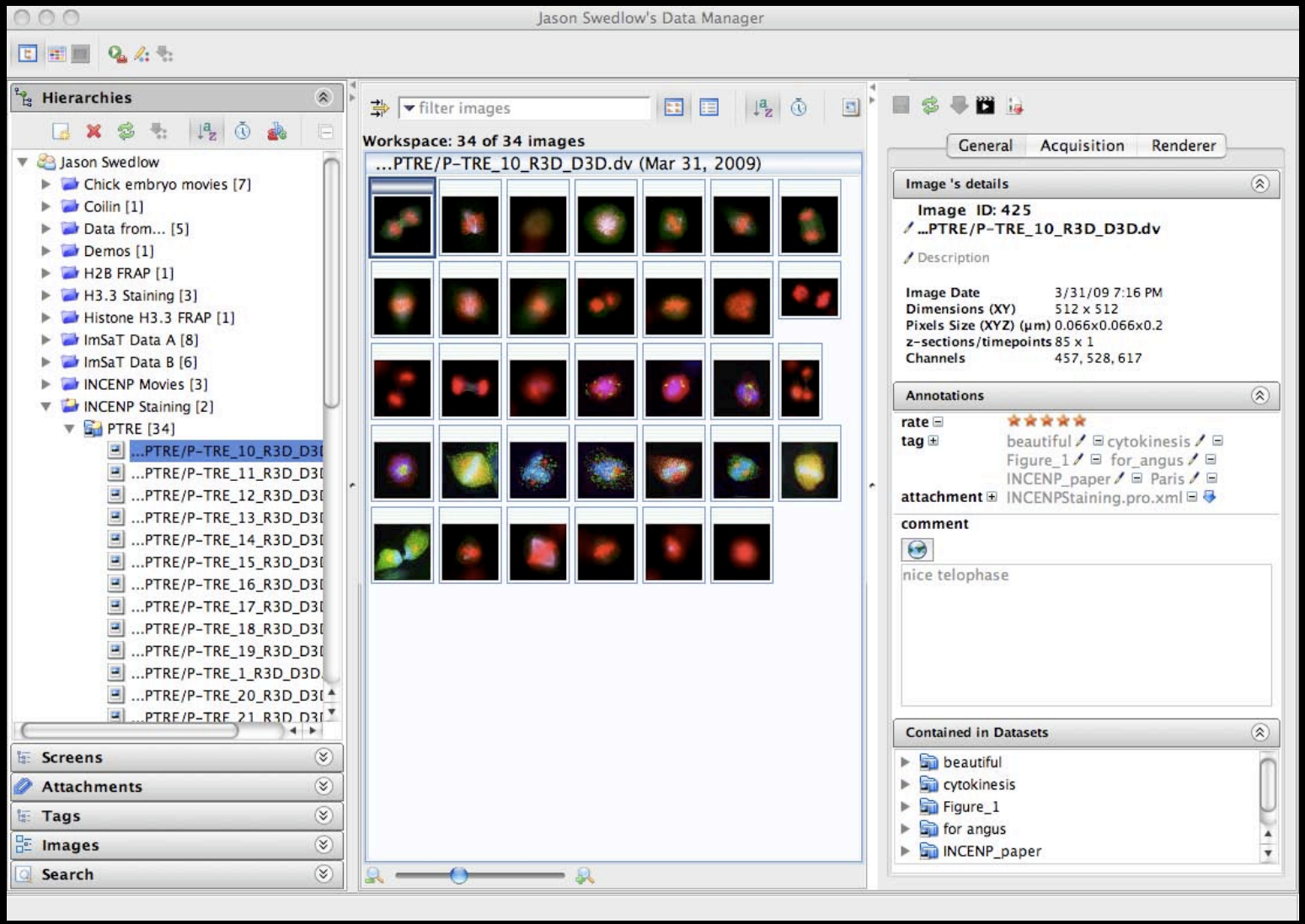
General client updates & consistency improvements



OMERO.web 4.3.0

... for scientists and developers

General client updates & consistency improvements

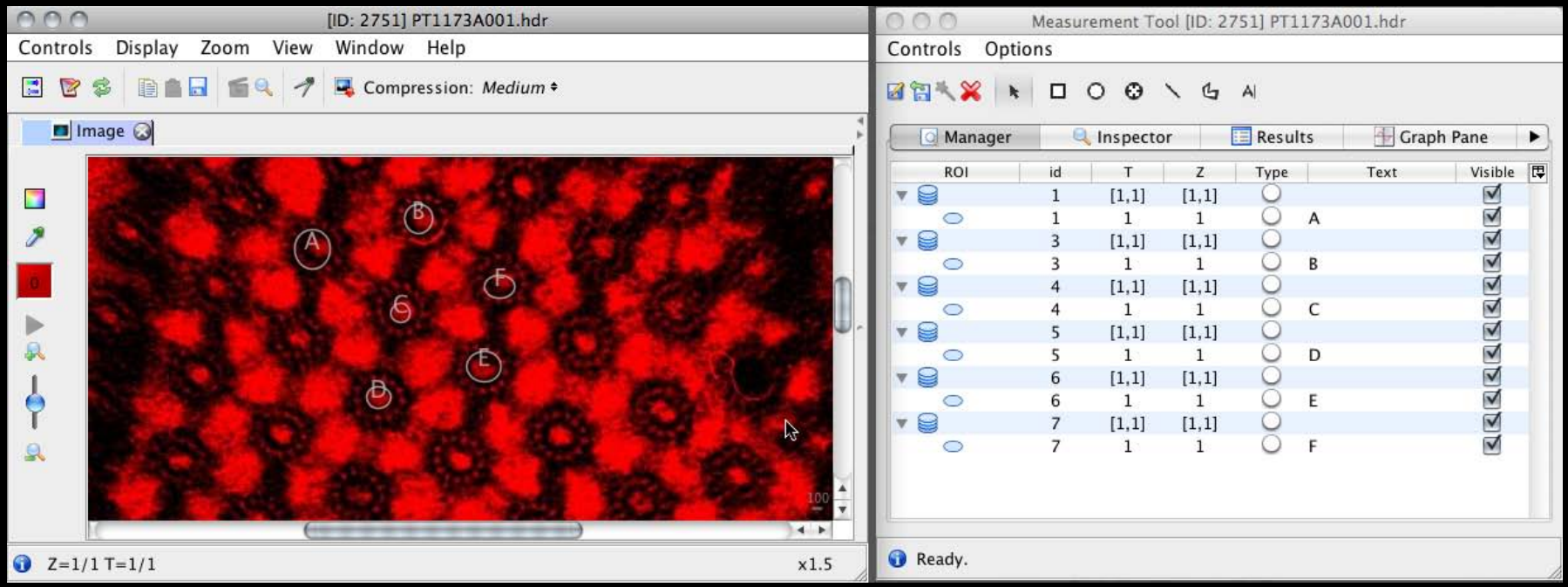


OMERO.insight 4.3.0

open microscopy environment

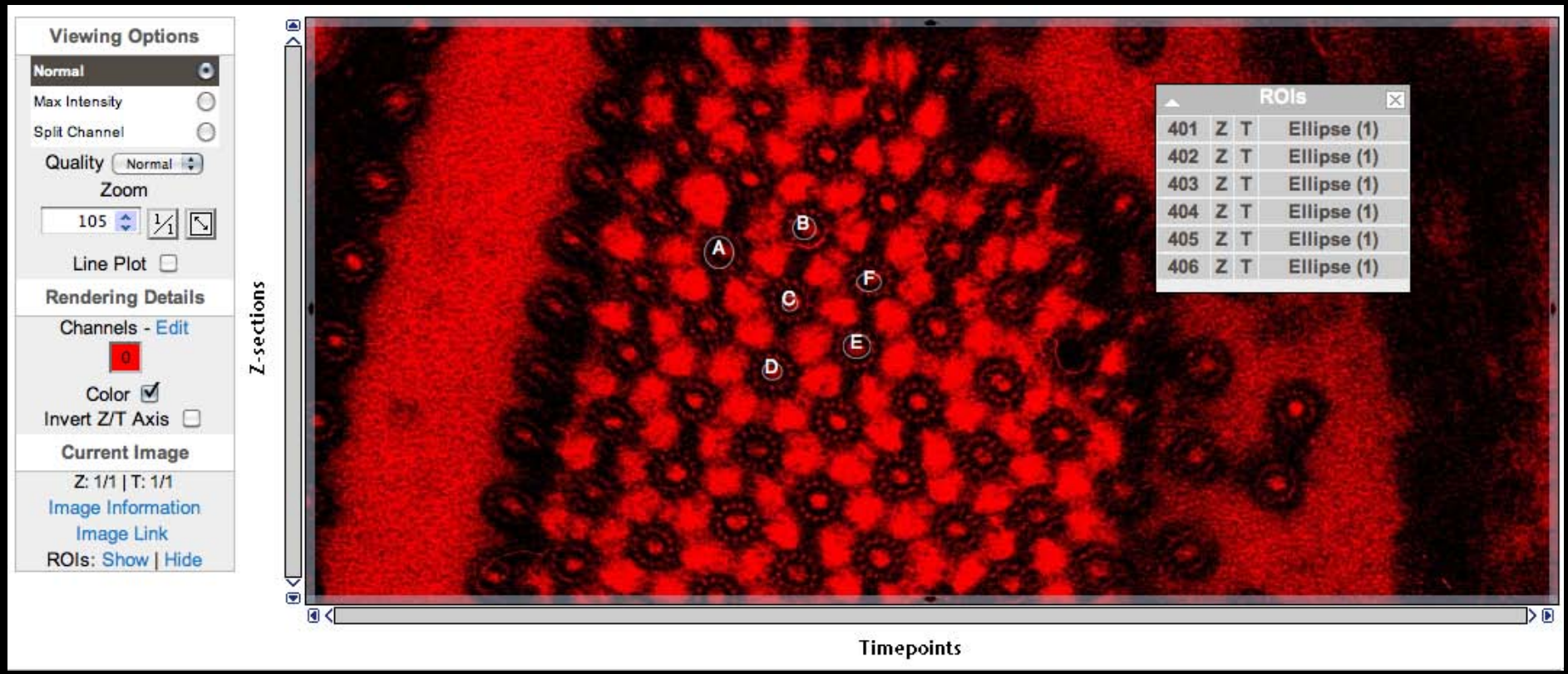
... for scientists and developers

ROIs in OMERO.Web



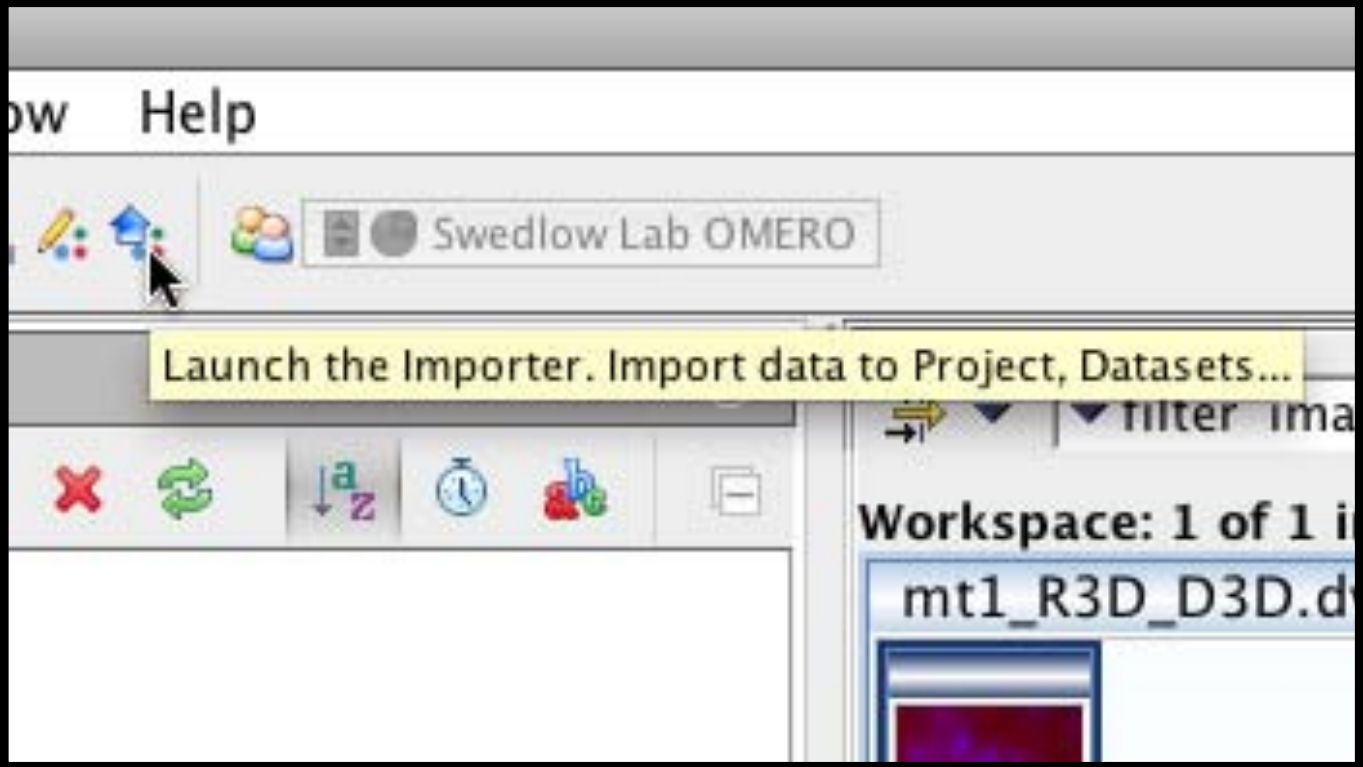
... for scientists and developers

ROIs in OMERO.Web



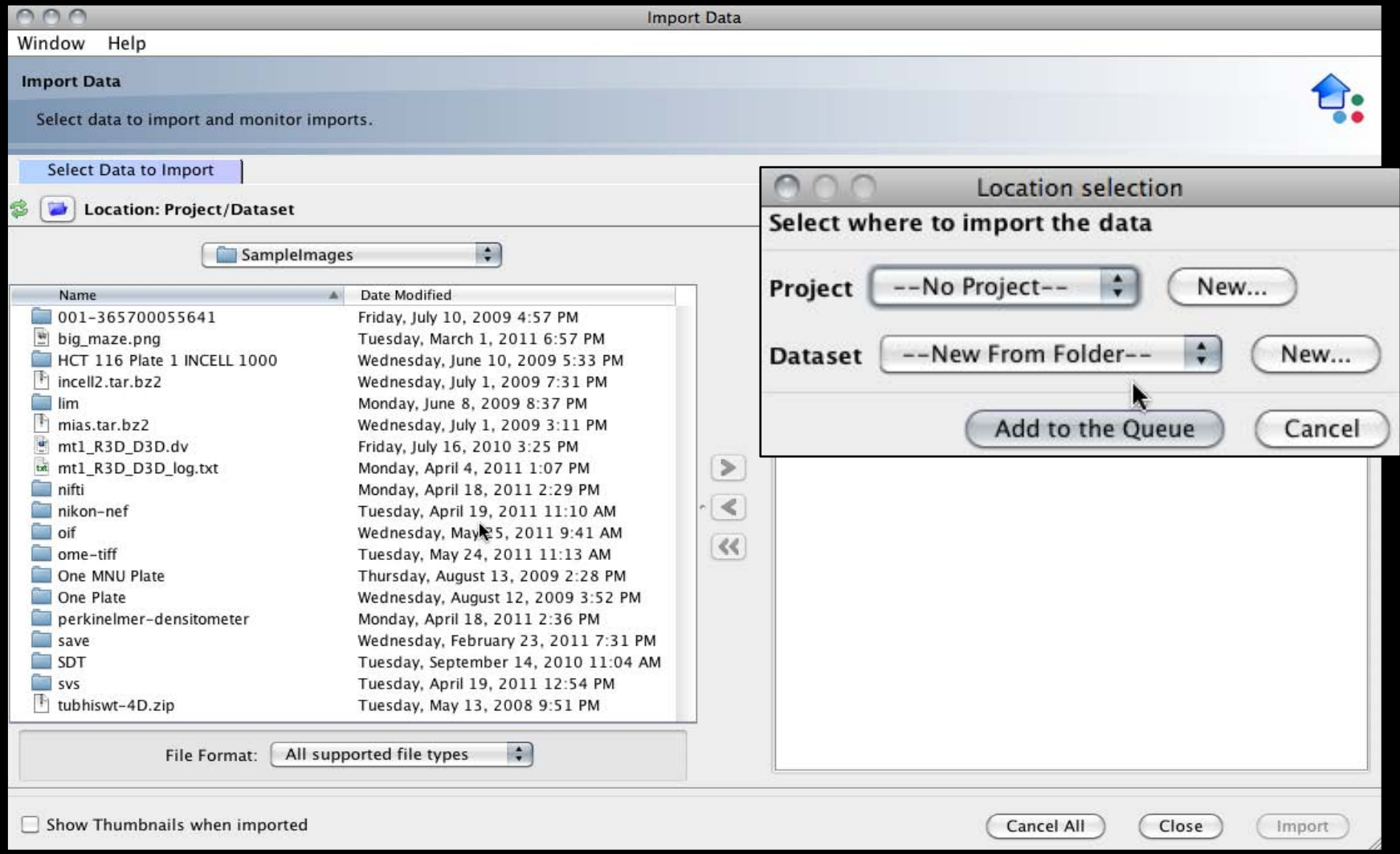
... for scientists and developers

Import in Insight



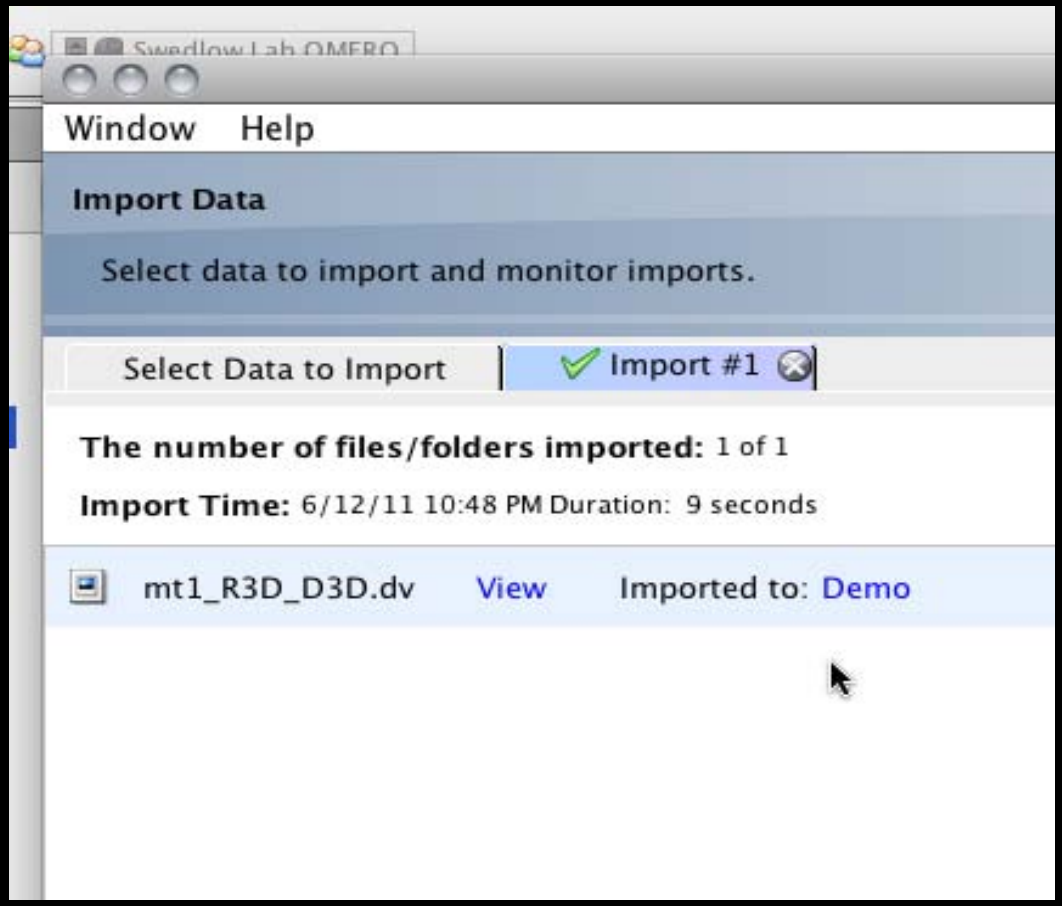
... for scientists and developers

Import in Insight



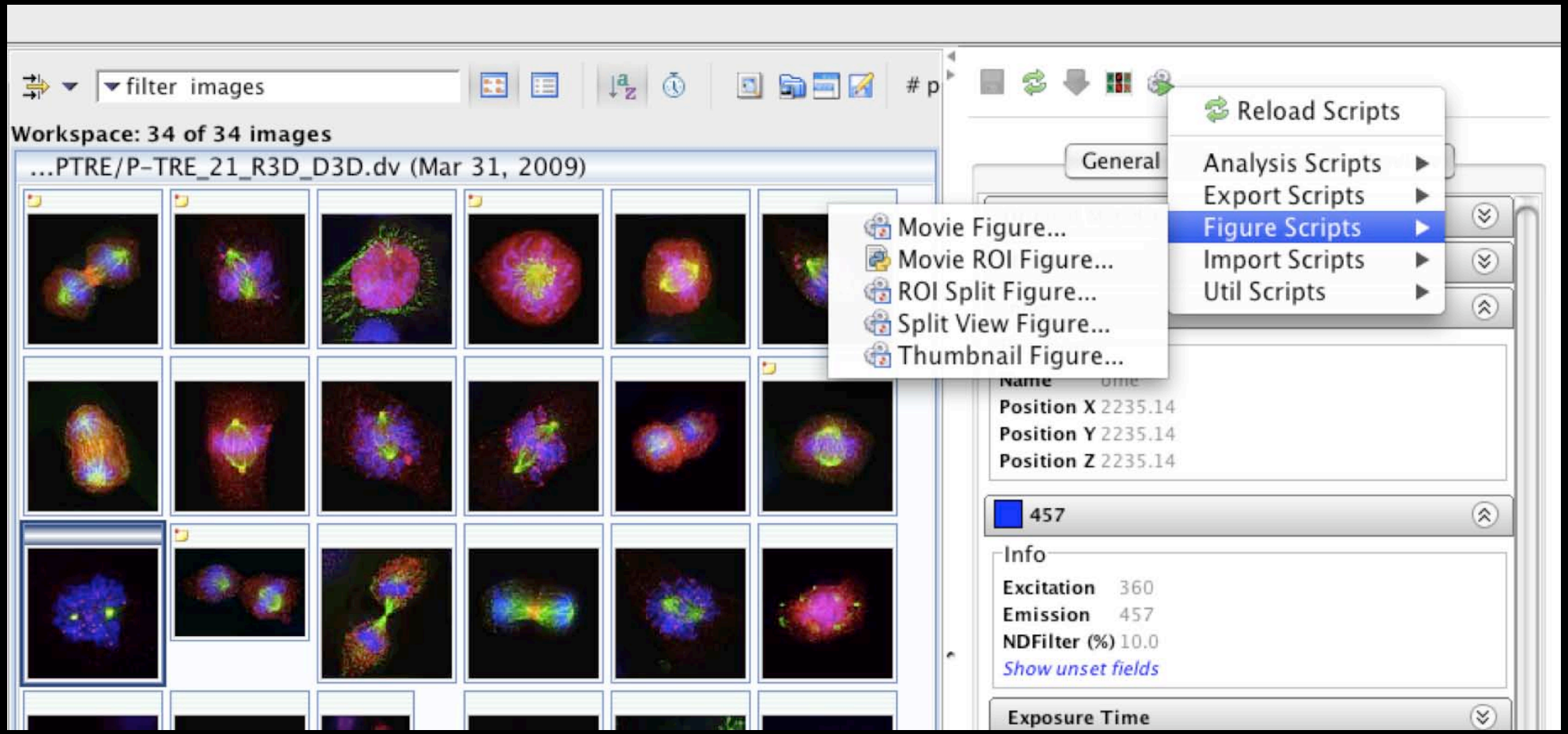
... for scientists and developers

Import in Insight



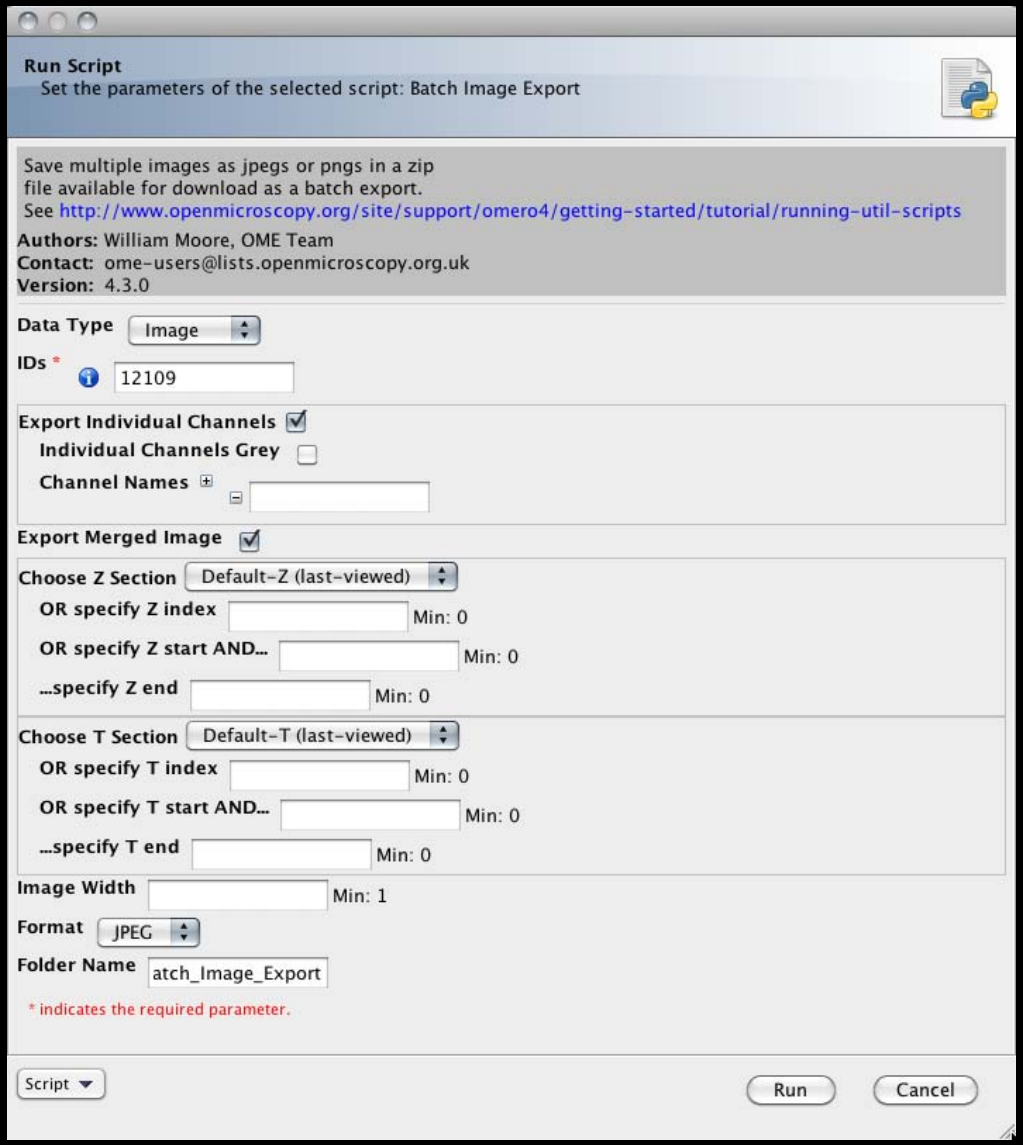
... for scientists and developers

Scripting



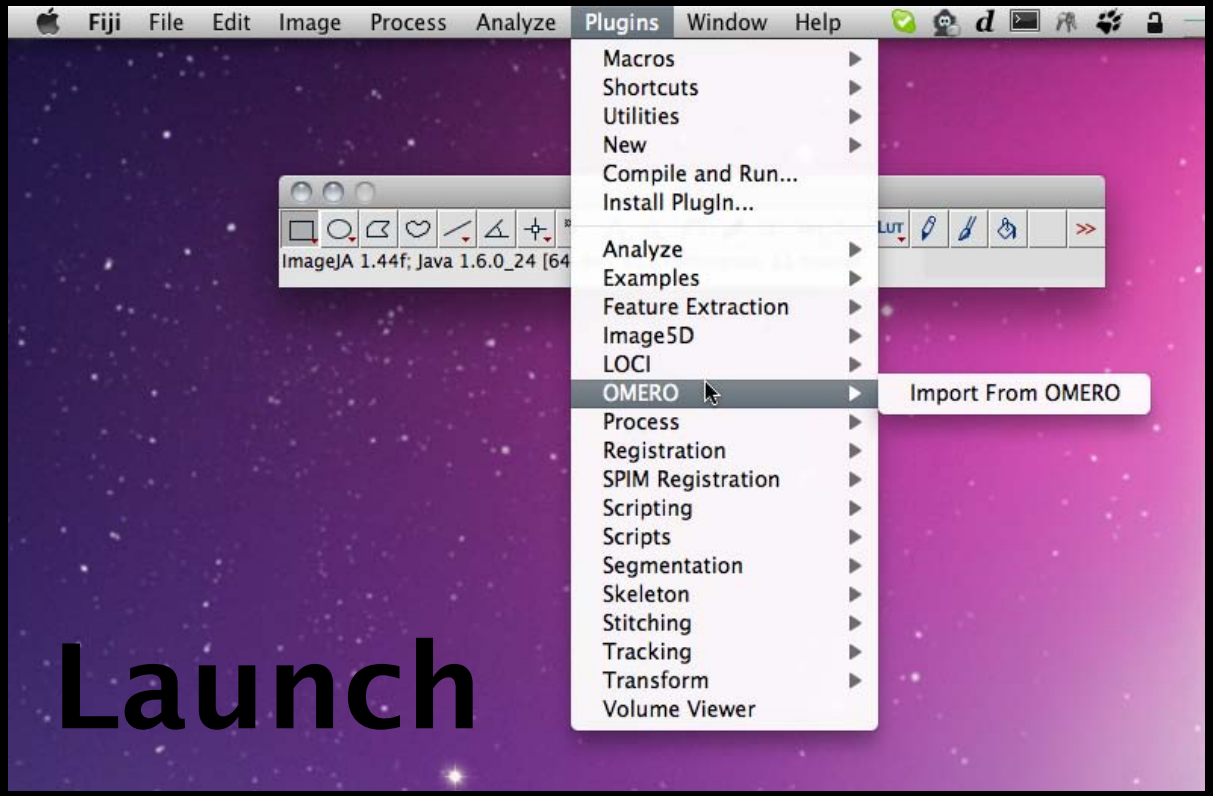
... for scientists and developers

Scripting



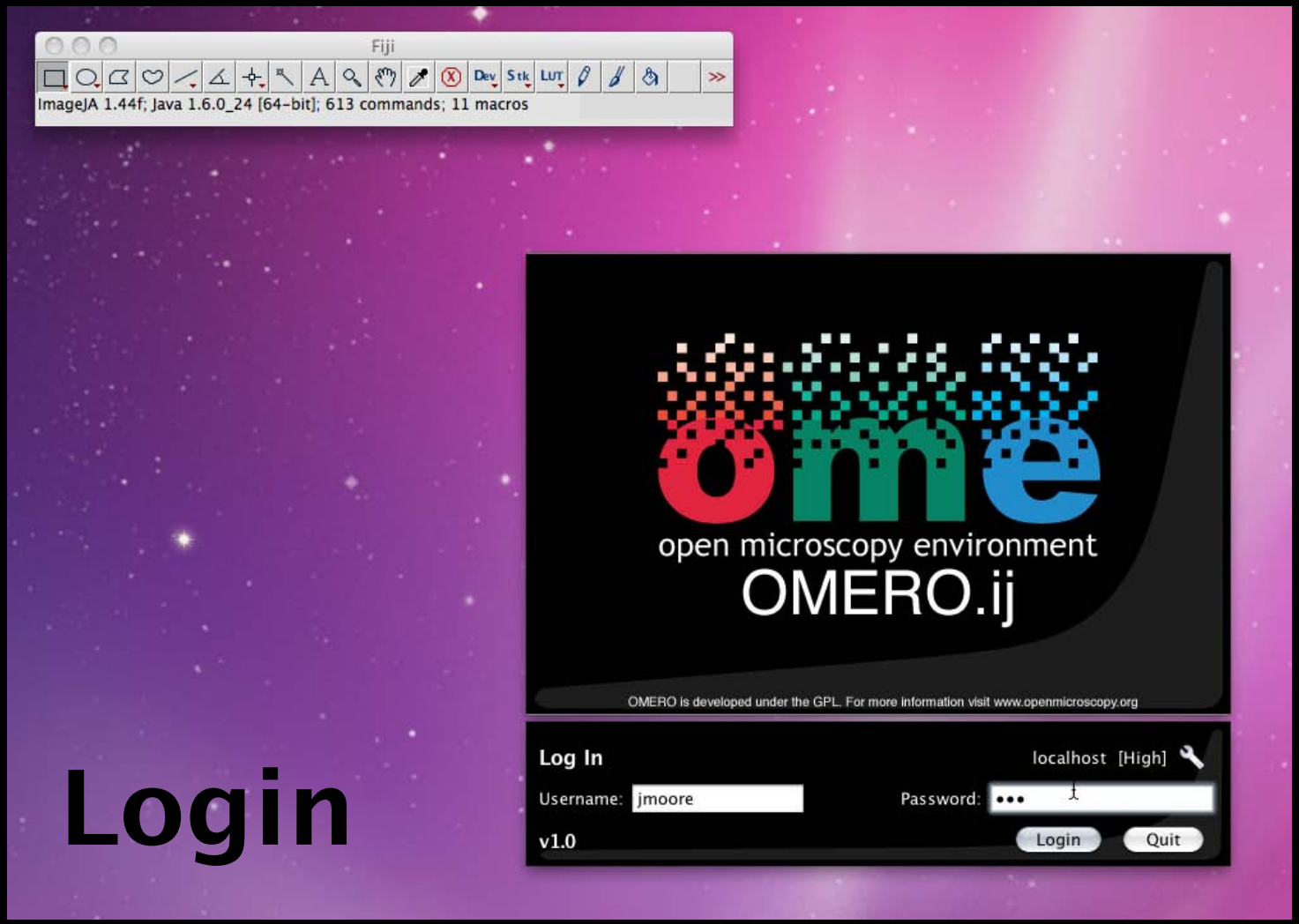
... for scientists and developers

ImageJ plugin



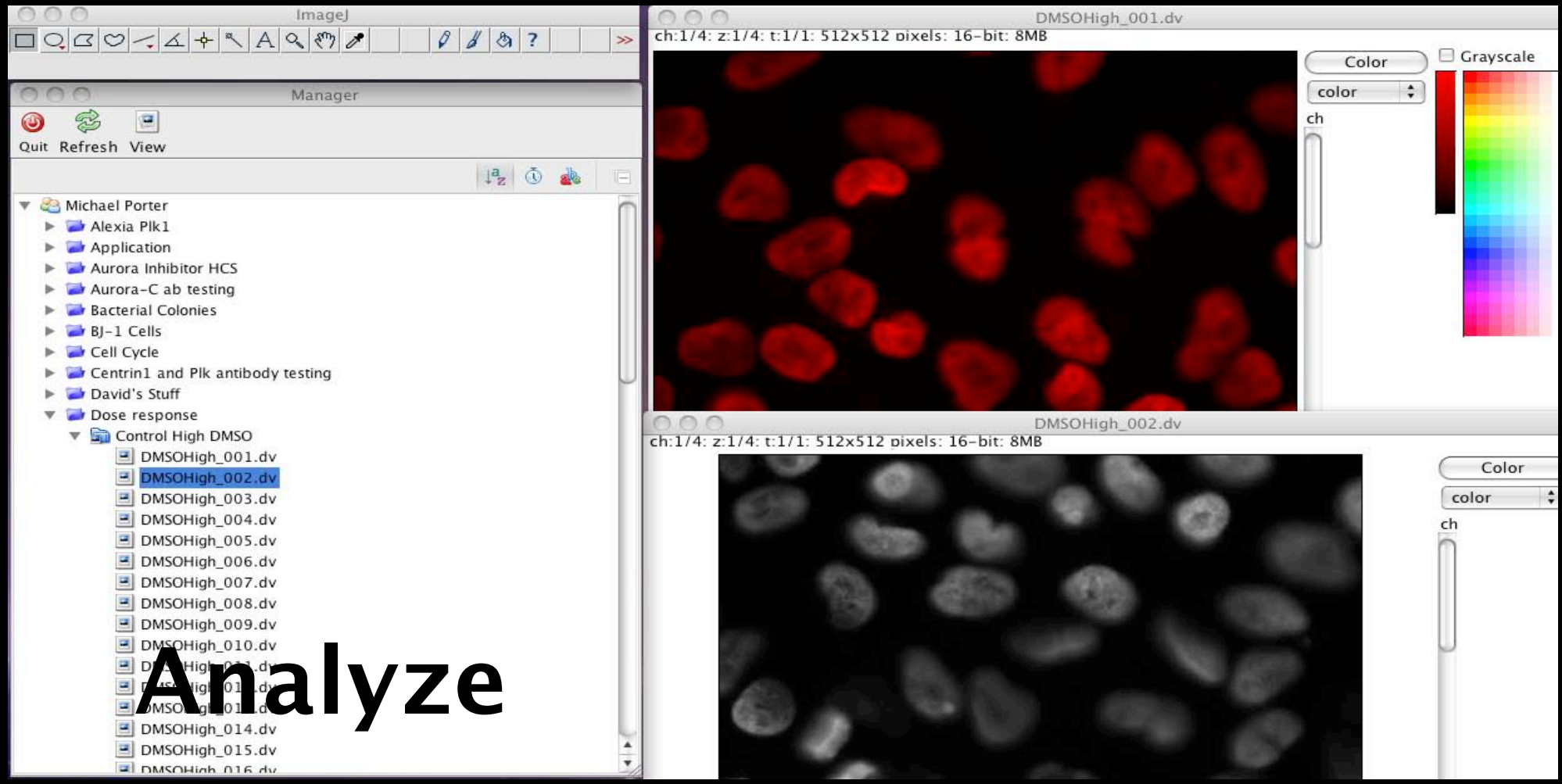
... for scientists and developers

ImageJ plugin



... for scientists and developers

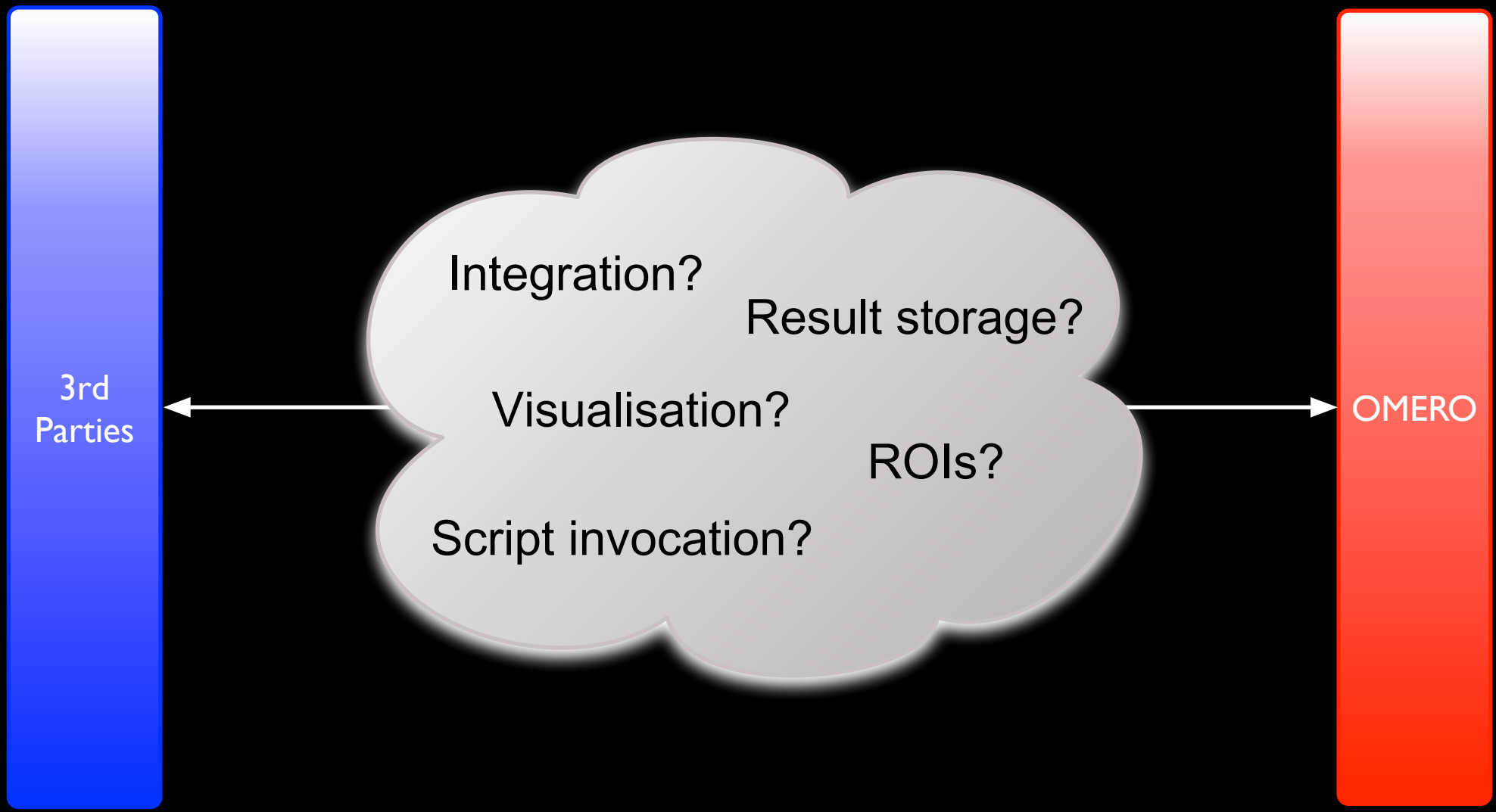
ImageJ plugin



Analyze

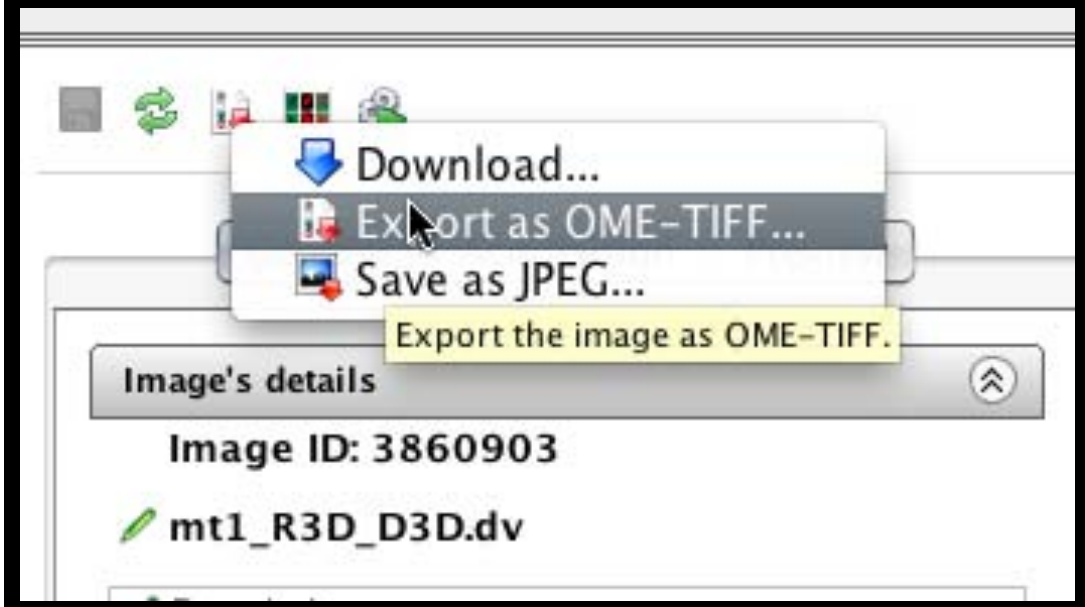
... for scientists and developers

Future directions for analysis...



... for scientists and developers

Export of OME-TIFF



3rd party applications

... for scientists and developers

FS Lite and Big Images

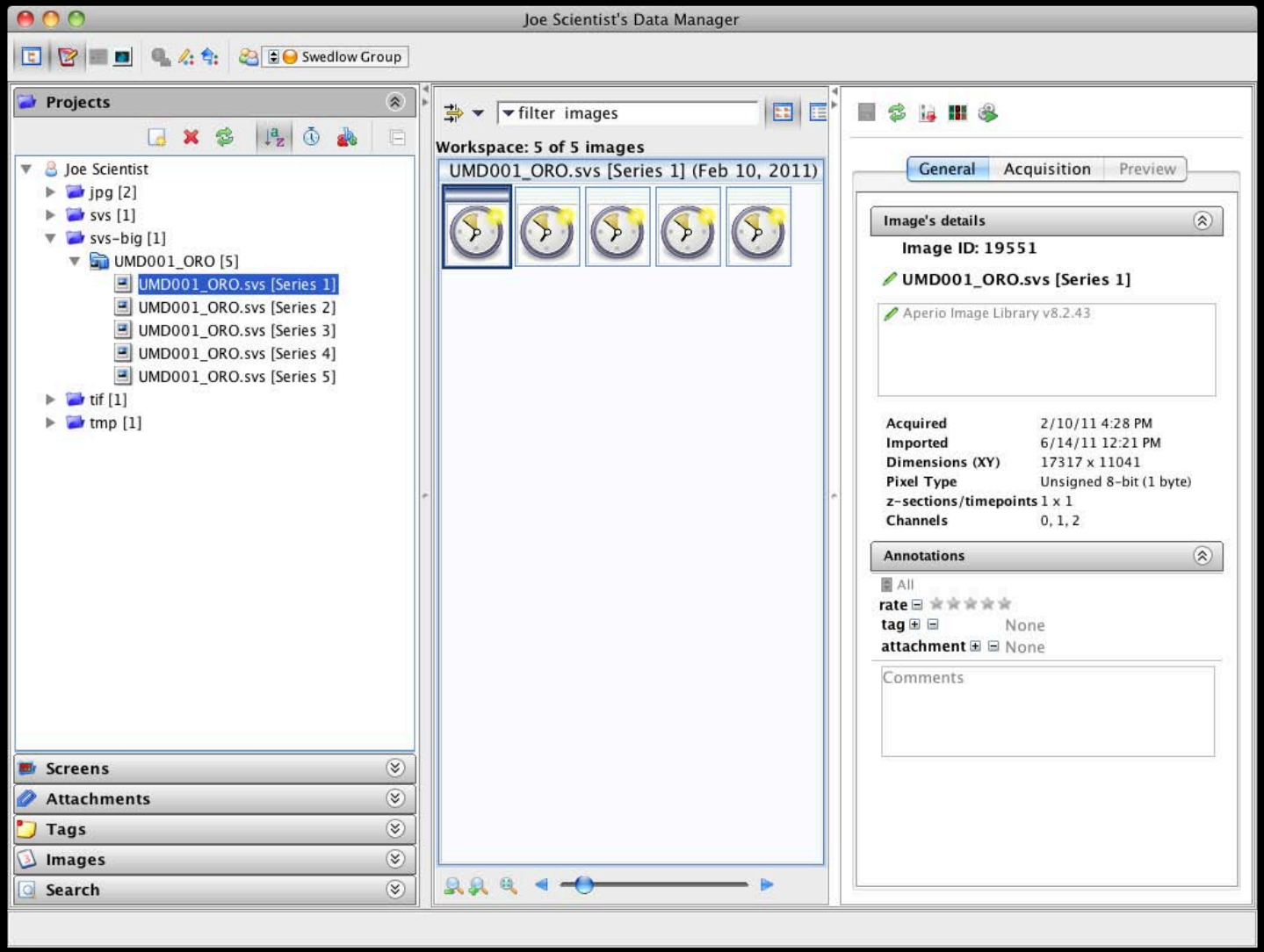
... for scientists and developers

FS Lite and Big Images

- Single file PFFs
- Pyramid generation server side
- Uses "archive" functionality
- Aperio SVS, JPEG, PNG, TIFF, JPEG 2000

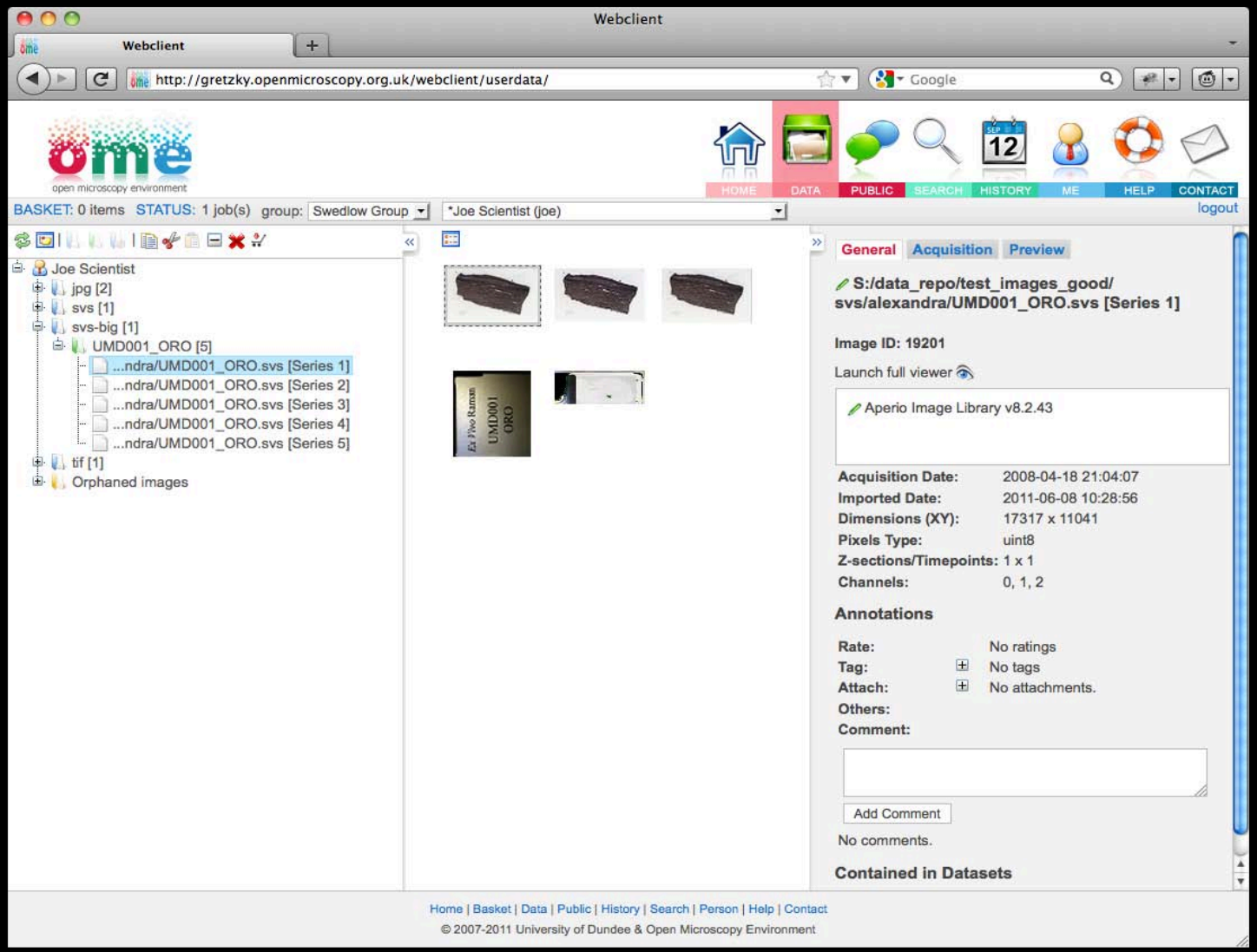
... for scientists and developers

FS Lite and Big Images



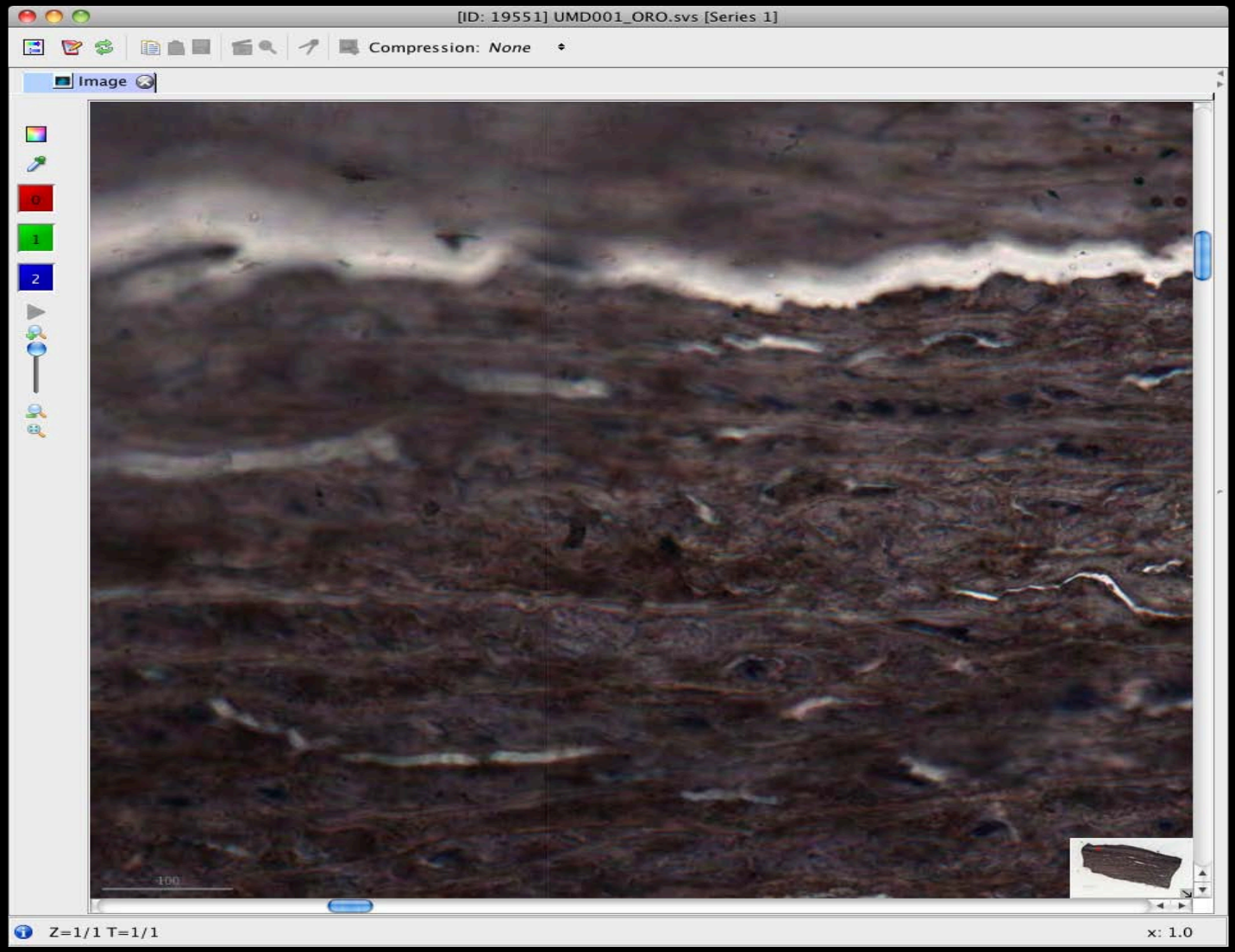
... for scientists and developers

FS Lite and Big Images



... for scientists and developers

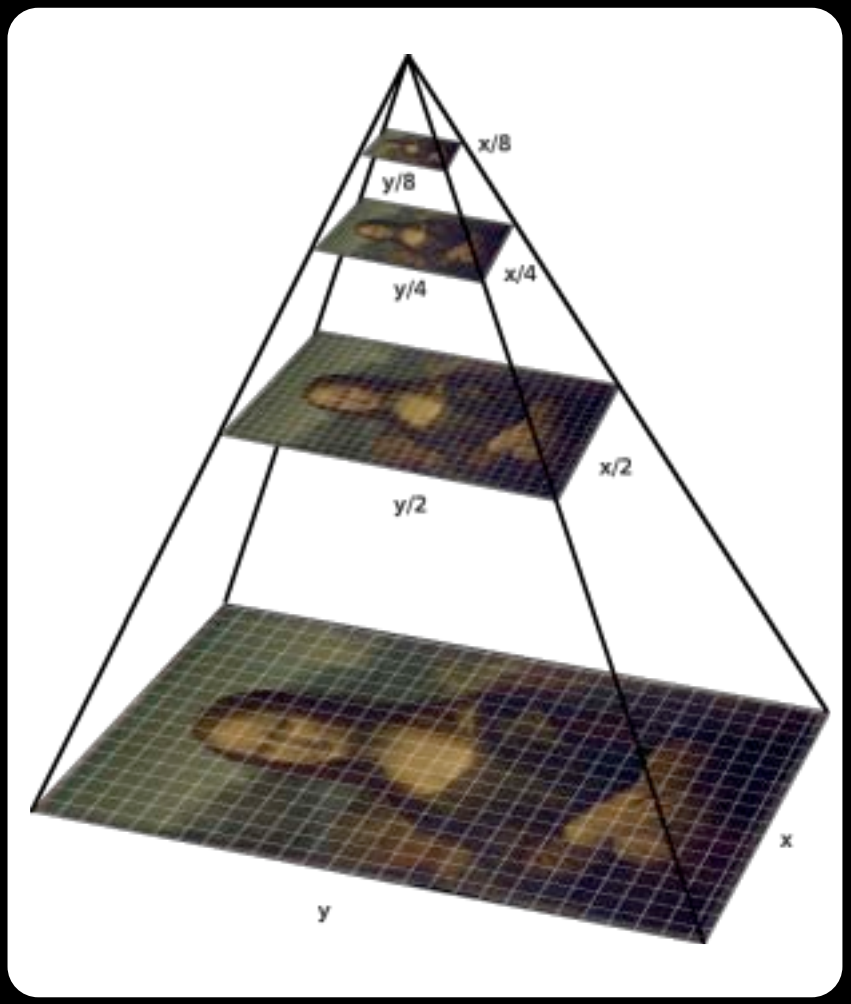
FS Lite and Big Images



... for scientists and developers

FS Lite and Big Images

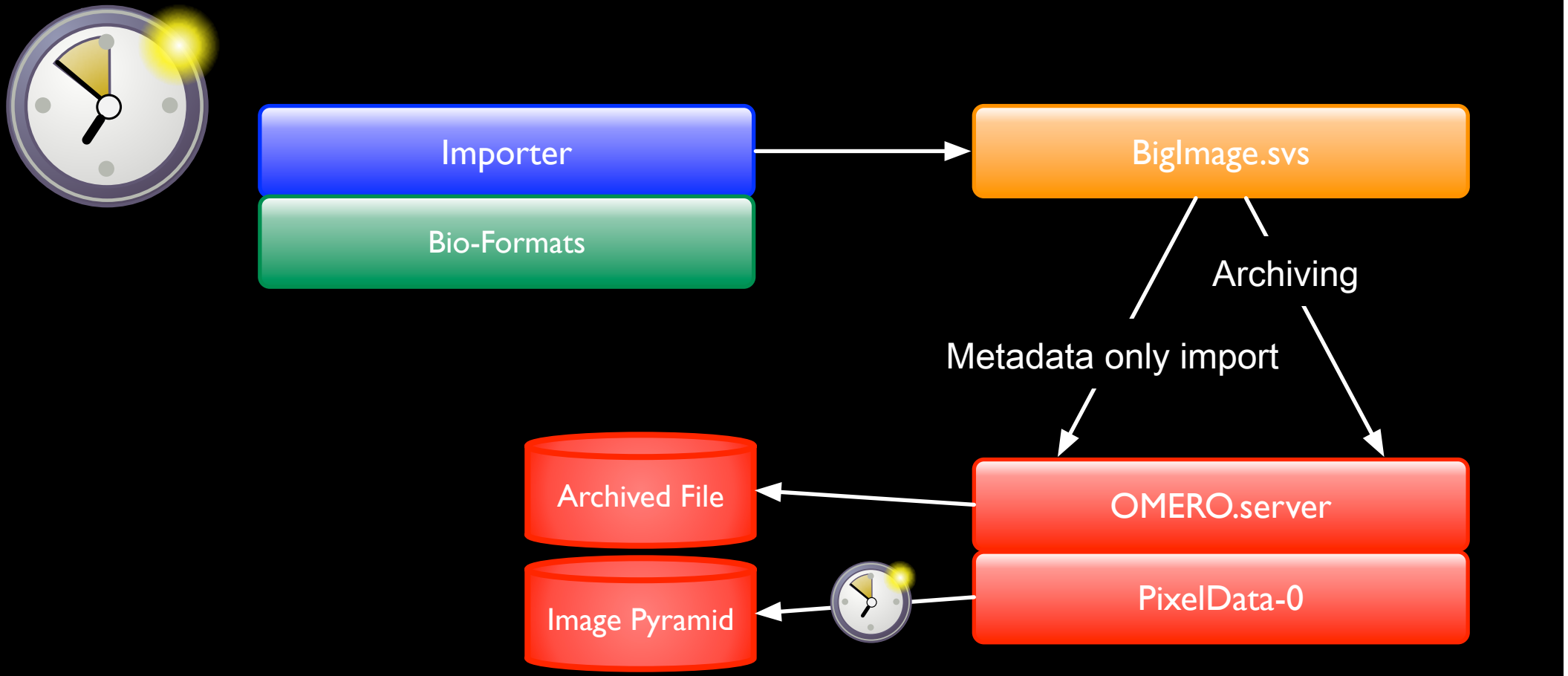
- Compression realities
- Image tiling
- Original file format details



http://iipimage.sourceforge.net/documentation/images/

... for scientists and developers

FS Lite and Big Images



Features for developers and admins

Advanced LDAP

omero config set omero.ldap.new_user_group ":query:(member=@{dn})"

FastCGI

omero config nginx > nginx.conf
nginx -c `pwd`/nginx.conf

Improved delete

Immediately removes binary data, freeing up system resources.

OMERO.tables API

Storage of tabular data on the server with efficient retrieval.

OMERO 4.3 Previews

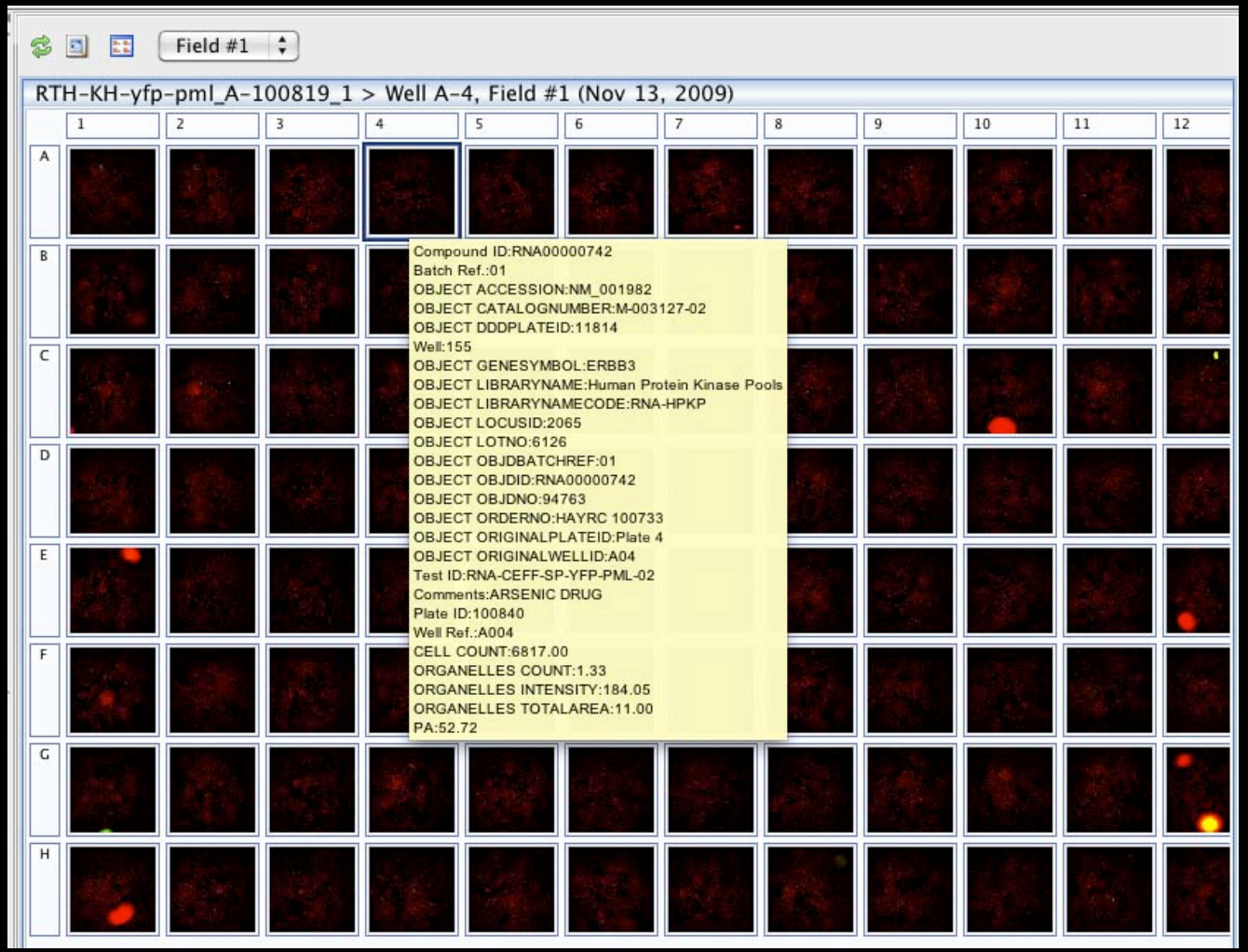
Bulk Annotation

Webmobile

FLIM

... for scientists and developers

Bulk annotation

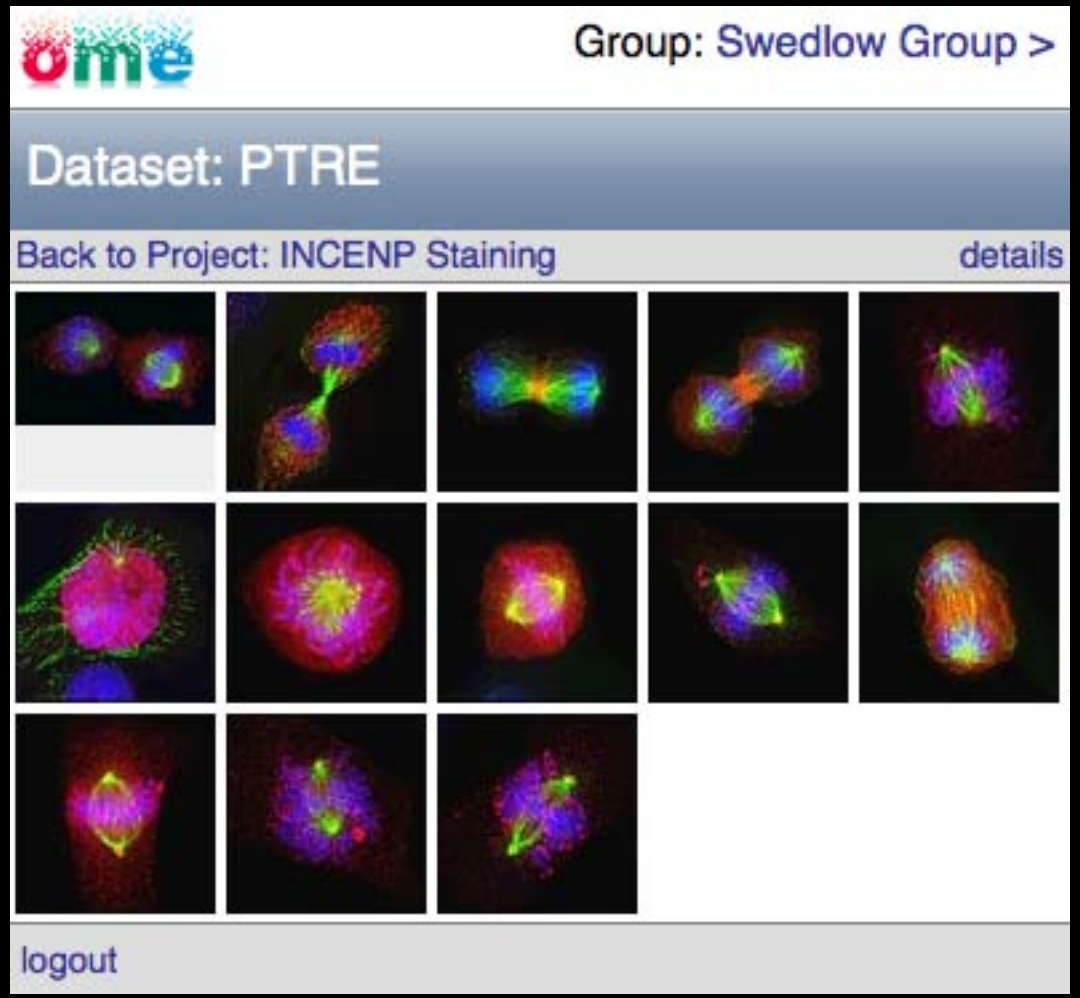


Attach tabular data and view it from Insight

... for scientists and developers

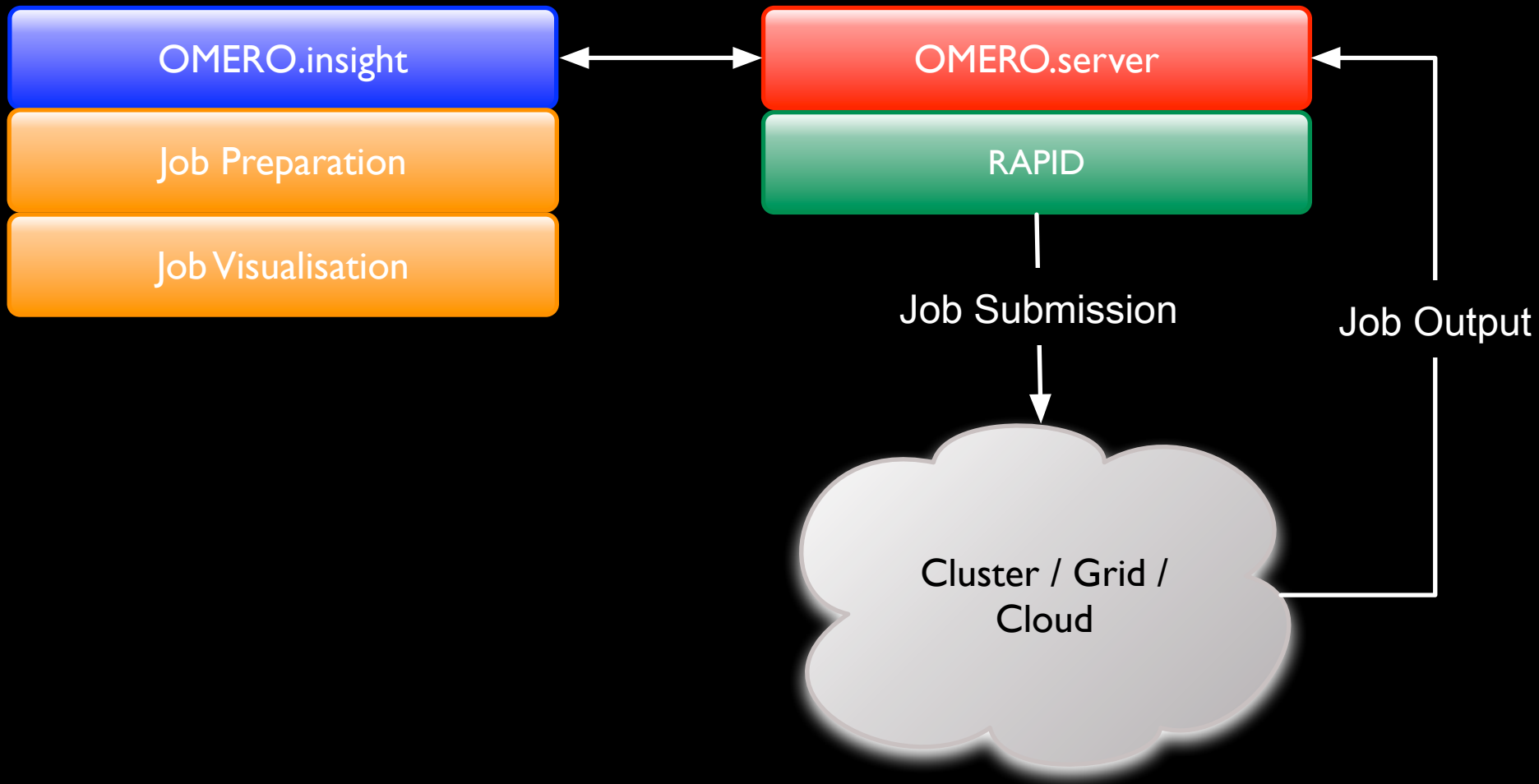
ROIs in OMERO.Web

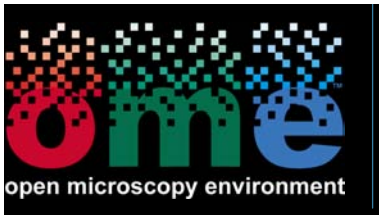
Work-in-progress webmobile



... for scientists and developers

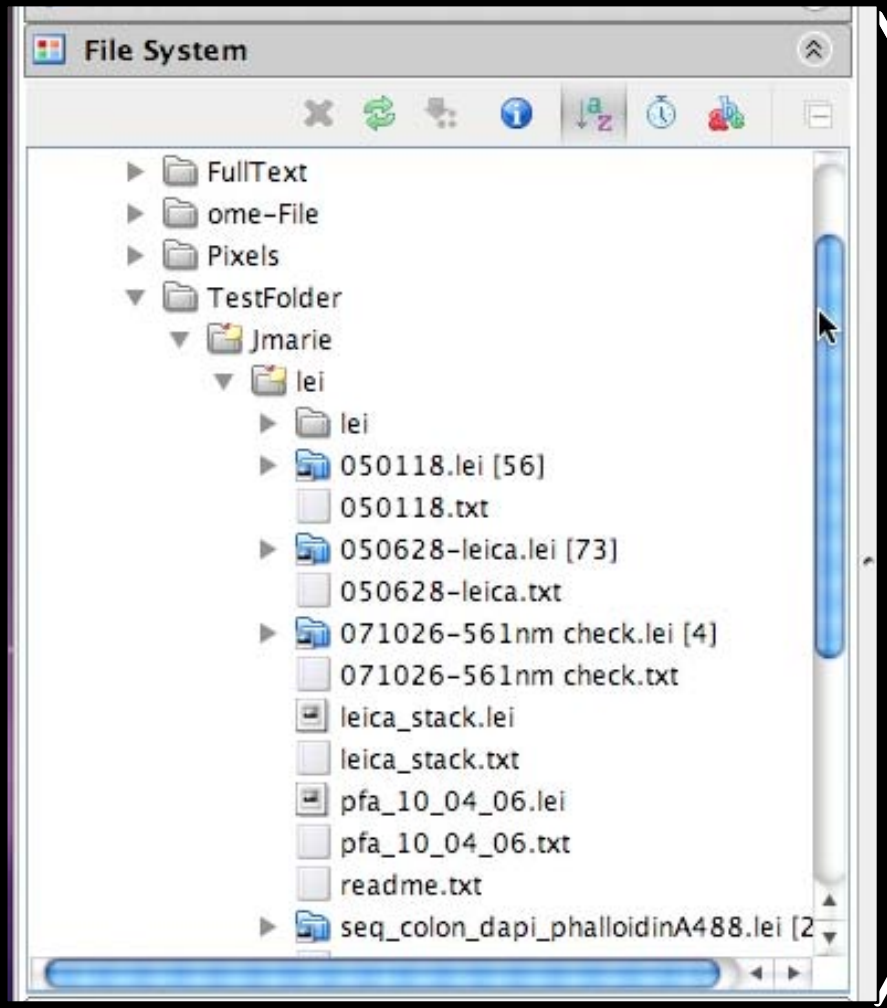
FLIM and RAPID

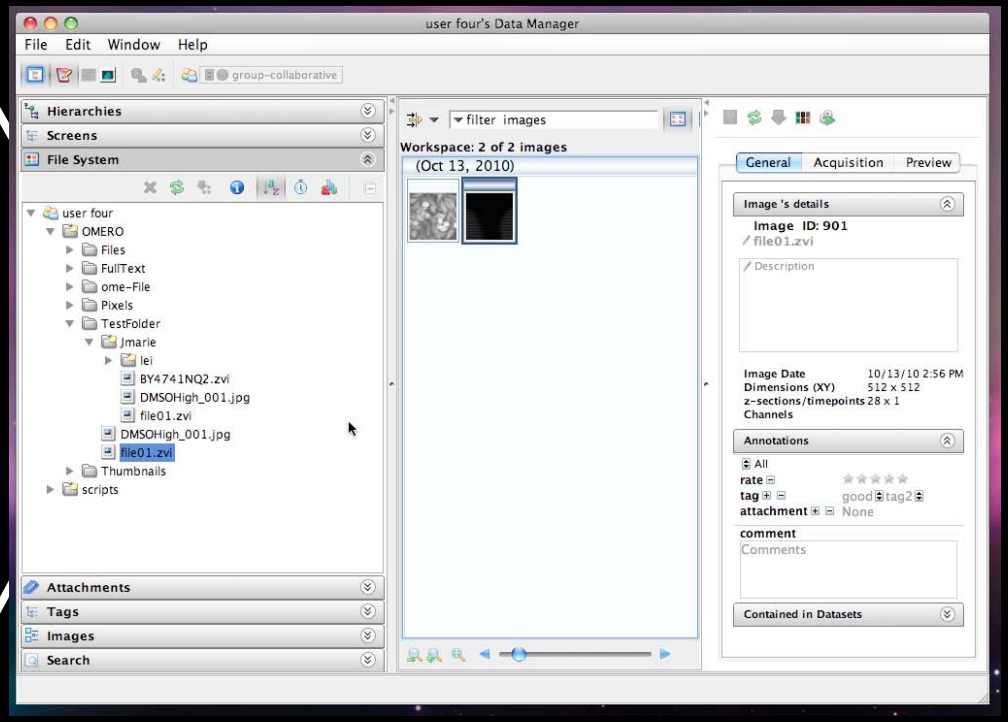




Questions?

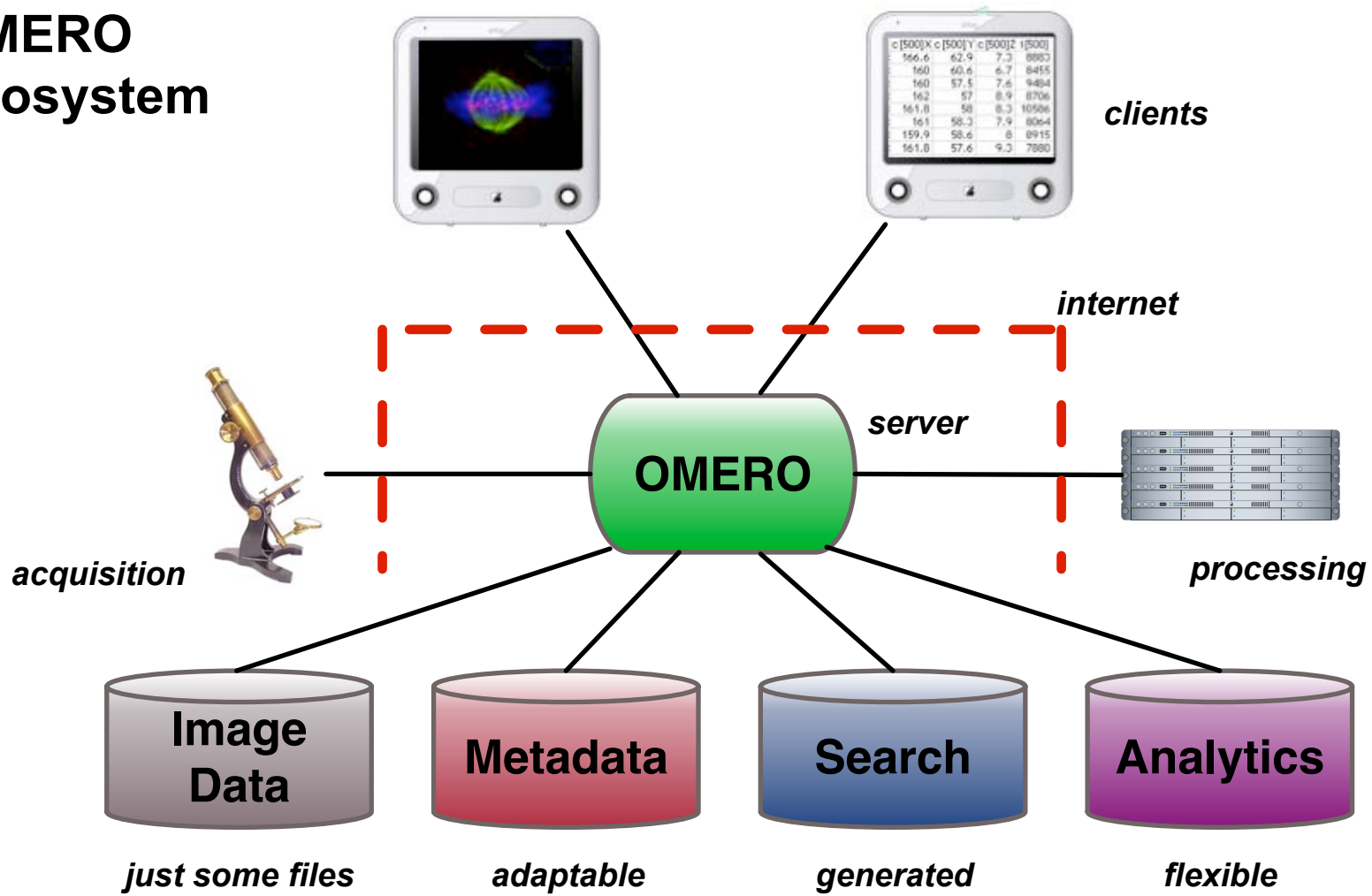
Next major efforts: FS...





...and also:

Group permission tools	Move data between groups; reassign data from old group members to new group members.
More 3rd party analysis	Improve the ImageJ plugin; integrate with other clients. CellProfiler? Others?
Improve OME-TIFF Export	Include export as older OME-XML versions for backwards compatibility.
Imported analysis results	Import, view, and analyze tabular, etc. data in OMERO.

open microscopy environment

OMERO Ecosystem