



openBIS Importer Toolset (oBIT)

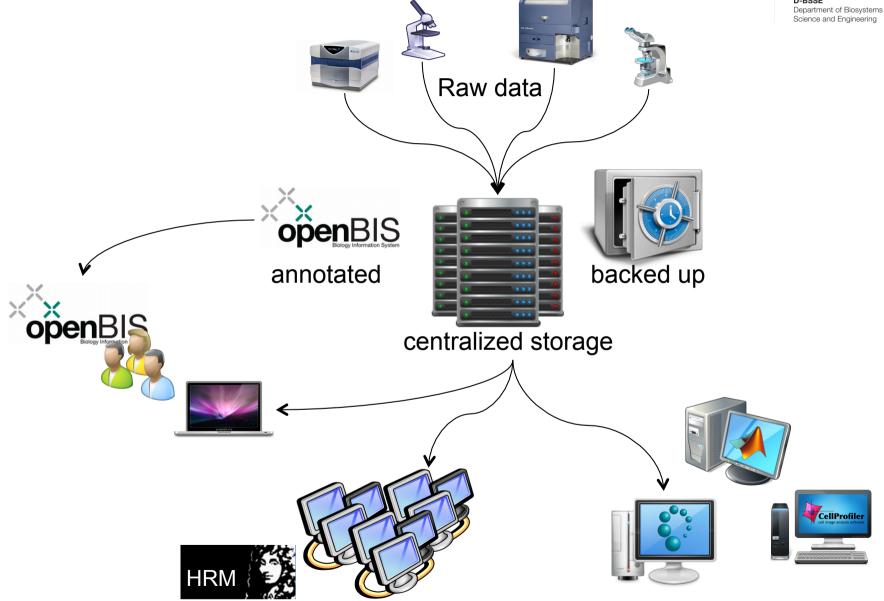
Aaron Ponti

Single Cell Unit, D-BSSE ETHZ (Basel)

aaron.ponti@bsse.ethz.c h











openBIS – <u>open Biology Information System</u>

openBIS is an **extensible**, **open source** software **framework** for **constructing** user-friendly, scalable and powerful **information systems** for **data** and **metadata** acquired in biological experiments.

It enables users to collect, integrate, share, publish data and to connect to data processing pipelines.

http://www.cisd.ethz.ch/software/openBIS







openBIS core

- Separate metadata (application server) and data (data store server)
- Clean and flexible hierarchical metadata structure:
 - Space > Project > Experiment > Sample > Dataset > File
 - Authorization at space level
 - Samples and datasets: entities have parent/child or container relationships
 - Datasets belong to samples or experiments
 - All entities have user defined types, properties and vocabularies
 - Attachments can be associated to most entities
- Information indexing and searching by metadata
- Rich set of APIs and plug-in interfaces
 - Java, Python (Jython), RESTful web services





openBIS extensions

Core plug-ins

- Dropboxes (dataset ingestion)
- Master data (import/export/update)
- Data sources (additional databases)
- Aggregation (reporting) plug-ins (metadata collection)
- Processing plug-ins (on datasets)
- Ingestion plug-ins (create/update entities)
- Maintenance tasks (update/fix)
- Web applications / RESTful web services (custom openBIS views)
- An organized set of core plug-ins can become a "core technology"
- Core plug-ins expand openBIS APIs to interface with custom client apps





openBIS "vanilla"

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PermID	20110913110350093-82823	Code		Data Set	Туре	Sample	Identifier	Sample Type	Project	Regist
Experiment	HCS_PLATONIC	2011091	13111517610	HCS_IMA	GE_RAW	/PLATON	NIC/PLATE-1	PLATE	SCREENING-EXAMPLES	
Type		2011091	13111925577	HCS_IMA	GE_SEGMENTATION	/PLATO	NIC/PLATE-1	PLATE	SCREENING-EXAMPLES	
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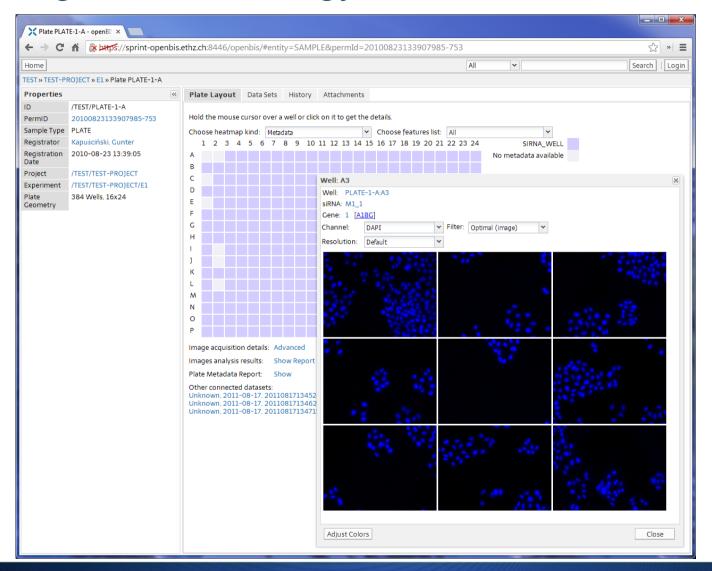
Current technologies

🛐 💿 IzPack - Installation of openBIS	\odot	\otimes
openBIS Biology Information System	User	Data
Technologies and Fast File Browsing		
Select any technology-specific modules that should installed along with openBIS. selection can be altered at the next upgrade:	The	:
Screening		
Illumina NGS (ETH BSSE Setup)		
Fast data set file browsing improves the performance of browsing of data sets v a large number of files. We recommend leaving it on for all instances, and espe- screening instances.		
Fast data set file browsing		
(Made with IzPack - http://izpack.org/)	😮 Qui	





Screening core technology

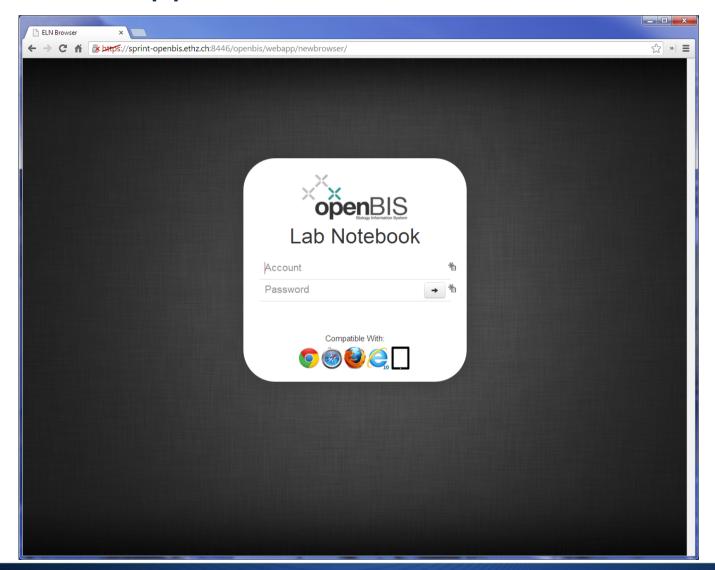


Single Cell Unit / D-BSSE





Custom web apps





Custom web apps

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Antibodies	Code	Preview	Alternative name	Inhibitor type	Target	Company	Catalogue number	Solubility	FW	Stock concentration	Final concentration		
nhibitors	ALLN	Unavailable	LLnL; calpain inhibitor l	Proteasome inhibitor		Sigma	A6185	DMSO	383.5 g/mol	26 mM (10 mg/ml)	25-50 mM	*	A
lasmids	AMPICILLIN	Unavailable		Drugs		Sigma	A9518	dH2O	371.4 g/mol	100 mg/ml	100 mg/ml	*	A
	B-GLYCEROPHOSPHATE	Unavailable		phosphatase inhibitor	Tyrosine	Sigma	G6251	dH2O	216 g/mol	1 M	10 mM	*	A
	BLASTICIDIN	Unavailable		Drugs		Invitrogen	R210-01	dH2O	458.9 g/mol	5 mg/ml	2.5 mg/ml	*	Å
	CAFFEINE	Unavailable		Kinase inhibitor	ATM/ATR	Sigma	C8960	dH2O	194.2 g/mol	80 mM	5 mM	*	A
	CHLORAMPHENICOL	Unavailable		Drugs		Sigma	C0378	Ethanol	323.1 g/mol	10 mg/ml	20 mg/ml	*	A





Custom web apps

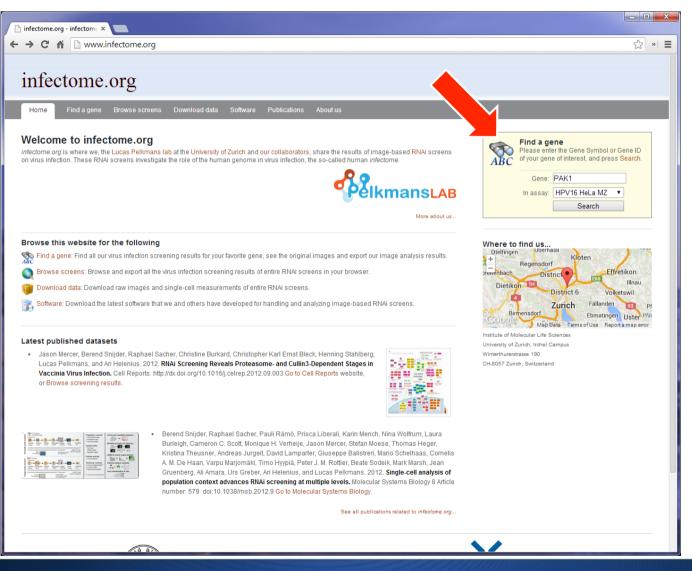
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Single Cell Unit / D-BSSE





Embedded openBIS



Single Cell Unit / D-BSSE





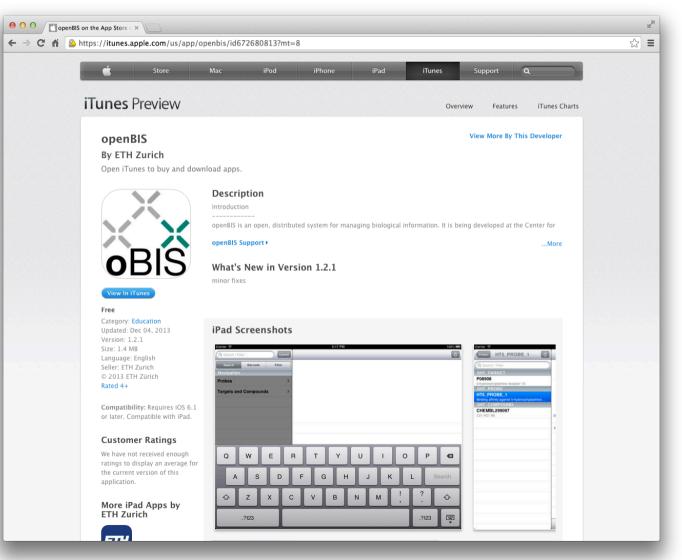
Embedded openBIS

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Feature	Median	Deviation	Rank (50)	siRNA 1 median	siRNA 1 repl. 1	siRNA 1 repl. 2	siRNA 1 repl. 3
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infectedCells	1934.0000	1470.0000	39	1934.0000	1409.0000	3688.0000	1934.0000
Infection Index (nor	0.1656	0.1144	27	0.1656	0.1221	0.3945	0.1656
RelativeInfectionIndex	0.9113	0.4917	22	1.4169	1.4030	3.2163	1.4169
Log2RelativeInfectio	-0.1340	0.6225	22	0.5027	0.4885	1.6854	0.5027
ZScore	-0.0488	0.5031	17	0.8806	NaN	1.3069	0.4544
MAD	-0.1467	0.6056	23	0.5460	0.5460	1.6724	0.4589
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Mean_Image_Intens	0.0198	0.0049	33	0.0233	0.0233	0.0344	0.0196
Mean_Nuclei_BinCor	0.3268	0.0270	17	0.3302	0.4363	0.3302	0.3243
Mean_Nuclei_Intensi	0.0800	0.0214	24	0.1425	0.0638	0.1425	0.1532
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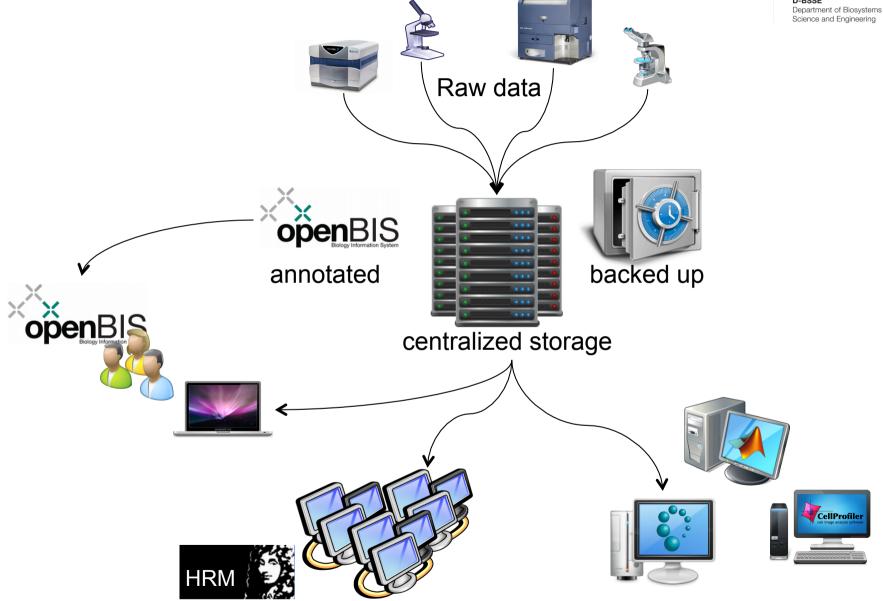




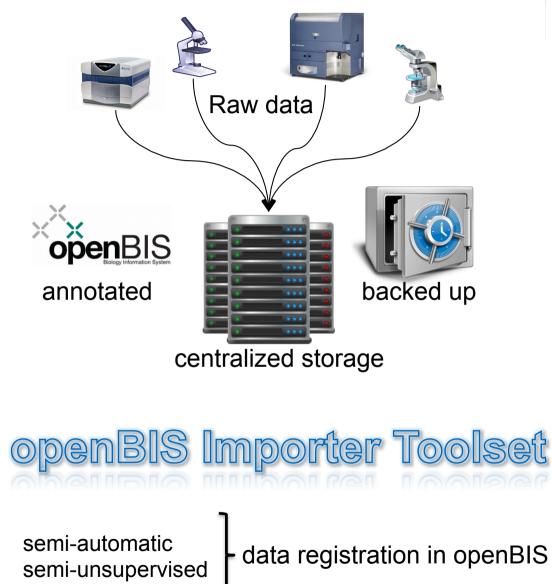
openBIS for tablets











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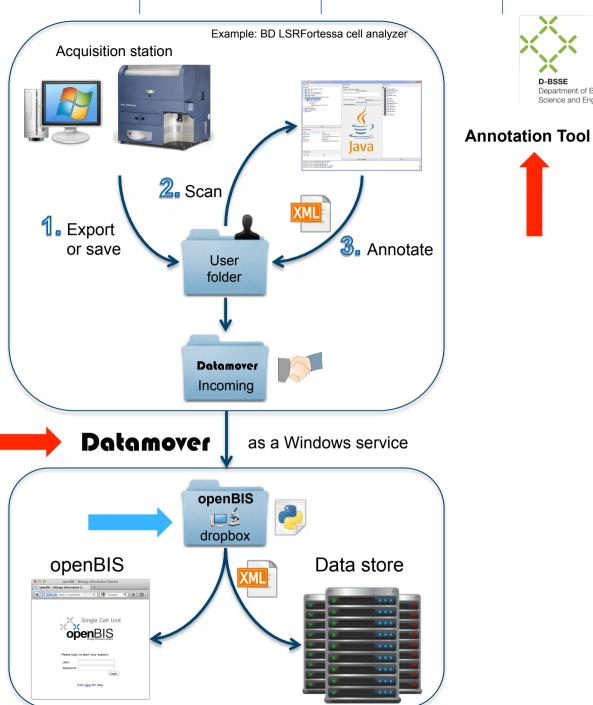


oBIT – <u>openBIS</u> Importer <u>Toolset</u>

The openBIS Importer Toolset is a tightly integrated collection of tools that allows for the semi-automated, semi-unsupervised registration of annotated datasets into openBIS <u>directly from the acquisition stations</u>.

It also extends openBIS with custom data viewers and server-side core plugins.













An administrator must set up the acquisition machine before the first use.

openBIS Importer Toolset :: Annotation Tool Admin v0.5.0
• Set the openBIS URL (this is current default)
https://bs-lamp09.ethz.ch:8443/openbis 🗸 + 🗕 🚺 🔨
Accept self-signed SSL certificates when logging in to openBIS
yes 🗸
Select the acquisition station or type
BD Biosciences Cell Analyzers and Sorters
BD LSRFortessa and FACSAria III (FCS 3.0/3.1 exports from BD FACSDiva™ Software 6/7)
Set user data directory
D:\user
Set Datamover incoming directory
D:\toOpenBIS\incoming
It is <u>highly recommended</u> to set both folders on the same file system.
Save Close





Set the openBIS URL(s)

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• Set the openBIS URL (this is current default)	
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yes	-
Select the acquisition station or type	
BD Biosciences Cell Analyzers and Sorters	-
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Set user data directory	
D:\user	
Set Datamover incoming directory	
D:\toOpenBIS\incoming	
It is highly recommended to set both folders on the same file system.	
Save	Close





Select the acquisition station or type

openBIS Importer Toolset :: Annotation Tool Admin v0.5.0	
• Set the openBIS URL (this is current default)	
https://bs-lamp09.ethz.ch:8443/openbis	
Accept self-signed SSL certificates when logging in to openBIS	
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Select the acquisition station or type	
BD Biosciences Cell Analyzers and Sorters	•
BD Biosciences Cell Analyzers and Sorters	
Generic light microscopes	
Set user data directory	
D:\user	
Set Datamover incoming directory	
D:\toOpenBIS\incoming	
It is <u>highly recommended</u> to set both folders on the same file system.	
Save Close	





Set the local working directories

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Select the acquisition station or type	
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Set user data directory	
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Set Datamover incoming directory	
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It is highly recommended to set both folders on the same file system.	
Save Close	





BD BIOSCIENCES CELL ANALYZERS AND SORTERS

SRFortessa cell analyzer

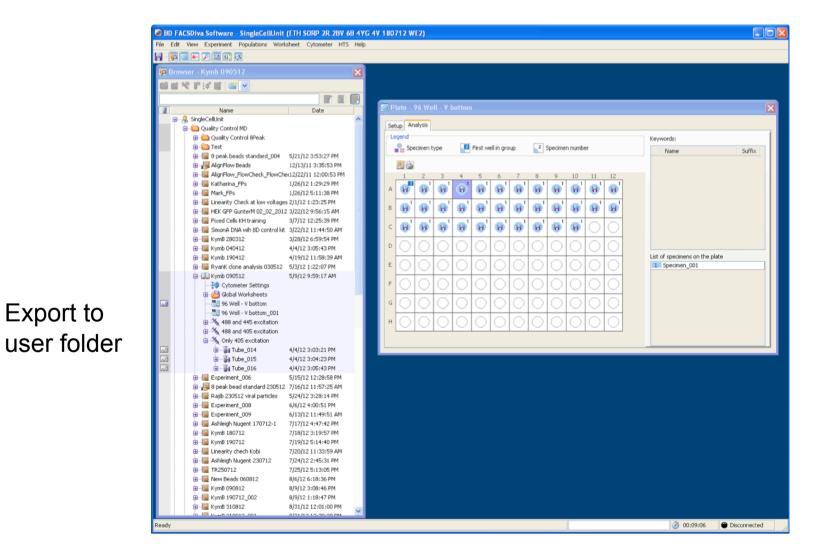


http://www.bdbiosciences.com/instruments/lsr/index.jsp

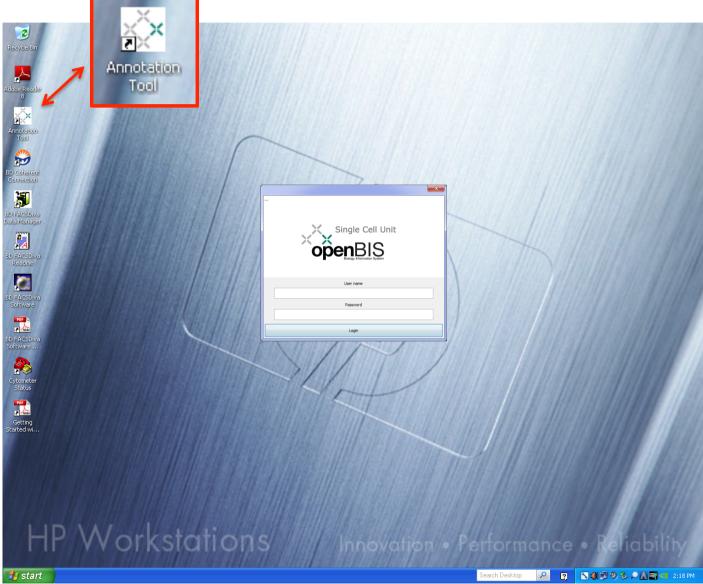




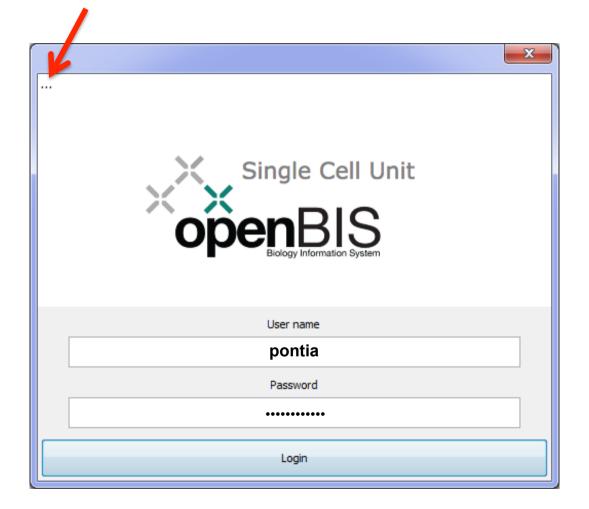
[User] Example: BD LSR Fortessa



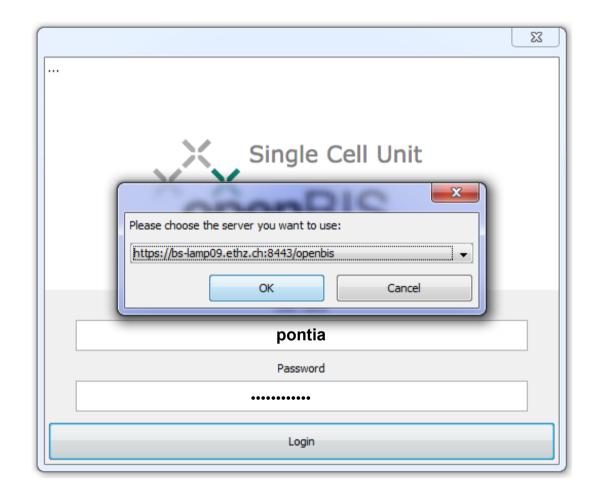




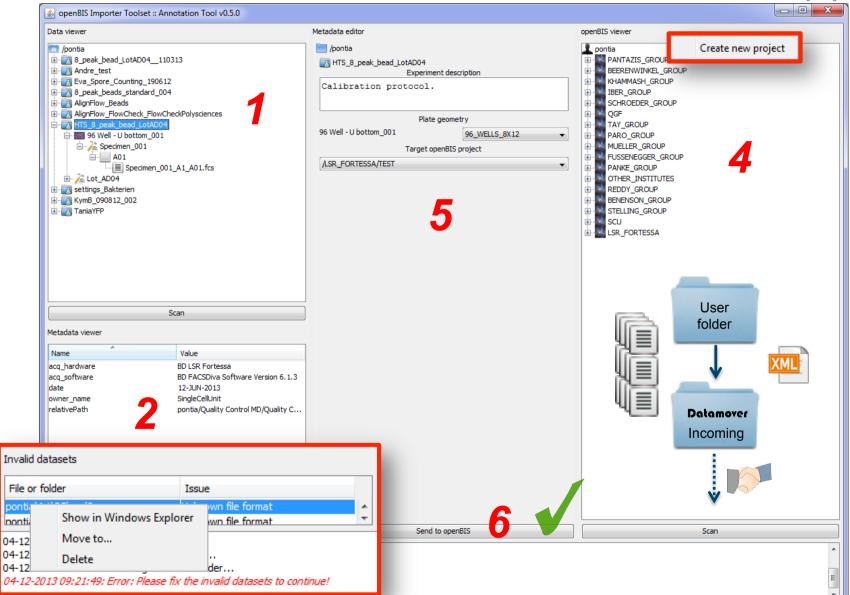












Eidgenössische Technische Hochschule Zürich Swiss Federal Institute of Technology Zurich



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	D-BSSE
	Department of Biosystems
	Science and Engineering

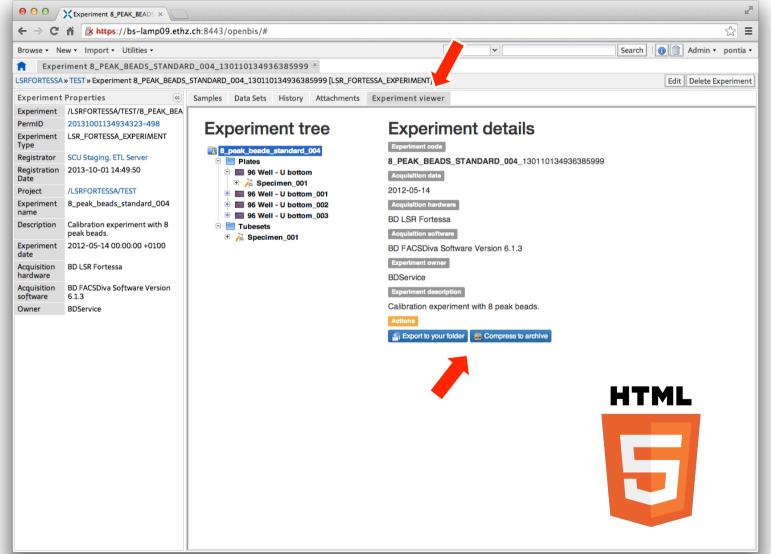
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Samples Data Sets History Attach				
Data Sets				directly connected Overview
Code	Data Set Type	Sample Identifier	Sample Type	Project Registrator
20130130171607997-7595	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1203	LSR_FORTESSA_WELL	LSR_FORTESSA_ALTERNATIVE_PROJECT
20130130171608064-7597	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1204	LSR_FORTESSA_WELL	LSR_FORTESSA_ALTERNATIVE_PROJECT
20130130171608133-7599	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1205	LSR_FORTESSA_WELL	LSR_FORTESSA_ALTERNATIVE_PROJECT
20130130171608200-7601	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1206	LSR_FORTESSA_WELL	LSR_FORTESSA_ALTERNATIVE_PROJECT
20130130171608272-7603	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1207	LSR_FORTESSA_WELL	LSR_FORTESSA_ALTERNATIVE_PROJECT
20130130171608338-7605	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1208	LSR_FORTESSA_WELL	LSR_FORTESSA_ALTERNATIVE_PROJECT
20130130171608405-7607	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1209	LSR_FORTESSA_WELL	LSR_FORTESSA_ALTERNATIVE_PROJECT
20130130171608470-7609	LSR_FORTESSA_FCSFILE	/LSR FORTESSA/LSR P1202:LSR W1210	LSR_FORTESSA_WELL	LSR FORTESSA ALTERNATIVE PROJECT
20130130171608537-7611	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1211	LSR_FORTESSA_WELL	LSR FORTESSA ALTERNATIVE PROJECT
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20130130171609267-7633	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1222	LSR_FORTESSA_WELL	LSR FORTESSA ALTERNATIVE PROJECT
20130130171609336-7635	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1223	LSR_FORTESSA_WELL	LSR FORTESSA_ALTERNATIVE_PROJECT
20130130171609400-7637	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1224	LSR_FORTESSA_WELL	LSR FORTESSA ALTERNATIVE PROJECT
20130130171609464-7639	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1225	LSR_FORTESSA_WELL	LSR FORTESSA ALTERNATIVE PROJECT
20130130171609531-7641	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1226	LSR_FORTESSA_WELL	LSR FORTESSA ALTERNATIVE PROJECT
20130130171609597-7643	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1227	LSR_FORTESSA_WELL	LSR FORTESSA_ALTERNATIVE_PROJECT
20130130171609660-7645	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1228	LSR_FORTESSA_WELL	LSR_FORTESSA_ALTERNATIVE_PROJECT
20130130171609729-7647	LSR_FORTESSA_FCSFILE	/LSR FORTESSA/LSR P1202:LSR W1229	LSR_FORTESSA_WELL	LSR_FORTESSA_ALTERNATIVE_PROJECT
20130130171609795-7649	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1230	LSR_FORTESSA_WELL	LSR_FORTESSA_ALTERNATIVE_PROJECT
20130130171609858-7651	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1231	LSR_FORTESSA_WELL	LSR_FORTESSA_ALTERNATIVE_PROJECT
20130130171609924-7653	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1232	LSR_FORTESSA_WELL	LSR_FORTESSA_ALTERNATIVE_PROJECT
20130130171609990-7655	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1233	LSR_FORTESSA_WELL	LSR_FORTESSA_ALTERNATIVE_PROJECT
20130130171610055-7657	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1234	LSR_FORTESSA_WELL	LSR_FORTESSA_ALTERNATIVE_PROJECT
20130130171610120-7659	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1235	LSR_FORTESSA_WELL	LSR_FORTESSA_ALTERNATIVE_PROJECT
20130130171610183-7661	LSR_FORTESSA_FCSFILE	/LSR_FORTESSA/LSR_P1202:LSR_W1236	LSR FORTESSA WELL	LSR_FORTESSA_ALTERNATIVE_PROJECT

Page 1 of 2 Page 1 Displaying 1 - 50 of 68 Table: Filters Settings Refresh Export -

Entity: Show Details Edit Tag Untag Delete All Export Data



Custom views



Single Cell Unit / D-BSSE



User scratch folder

					X
🕒 🔍 🔻 k Computer 🕨 BSSE-Fileserve	er (S:) 🕨 scuworking 🕨	✓ ← Search scuw	vorking		5
Organize 🔻 Burn New folder					?
🔆 Favorites	Name	Date modified	Туре		Size
🧮 Desktop	🔒 dst	25.04.2014 15:34	File folder		
🐍 Home	🖟 openbis_export	20.05.2014 14:04	File folder		
🐌 Downloads	STC .	25.04.2014 15:34	File folder		
🕮 Recent Places	Experiments in this folder will be deleted after 30 days	30.05.2014 02:00	File		
📇 AeroFS					
😌 Dropbox					
清 Libraries					
Documents					
Music					
Pictures					
Videos					
💻 Computer					
System (C:)					
Data (D:)					
BSSE-Fileserver (S:)					
pontia@BSSE (U:)					
📬 Network					
	۲ III			_	
4 items Offline status: Onlin Offline availability: Not a					
Chine availability: Not a	Valiable				





LIGHT MICROSCOPES





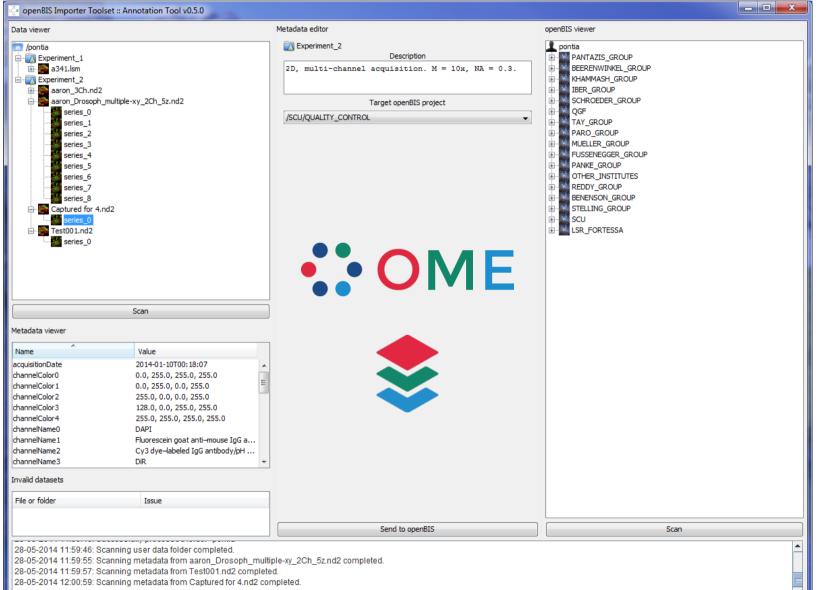




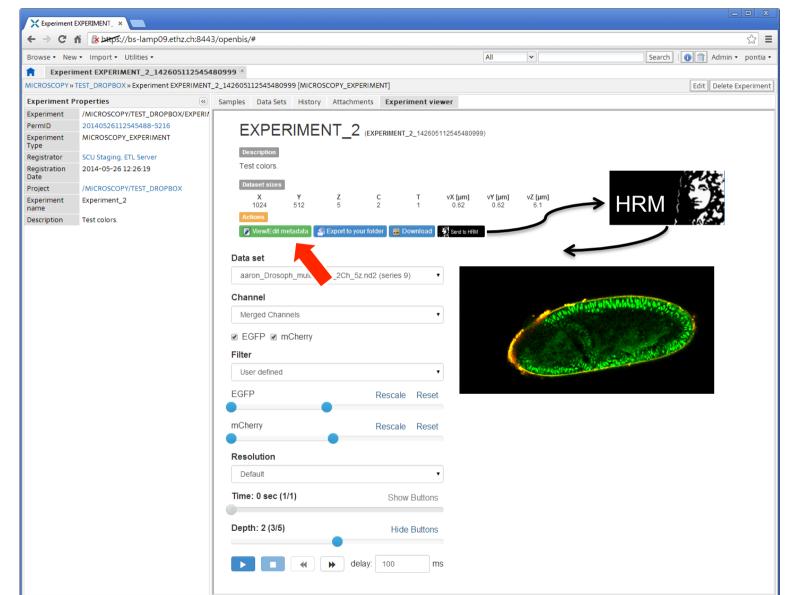
Select the acquisition station or type

openBIS Importer Toolset :: Annotation Tool Admin v0.5.0	
• Set the openBIS URL (this is current default)	
https://bs-lamp09.ethz.ch:8443/openbis	+ - 🔺 🔻
Accept self-signed SSL certificates when logging in to openBIS	
yes	
Select the acquisition station or type	
Generic light microscopes	
Generic light microscopes (LOCI bio-formats compatible)	
Set user data directory	
D:\user	
Set Datamover incoming directory	
D:\toOpenBIS\incoming	
It is <u>highly recommended</u> to set both folders on the same file system.	
	Save Close











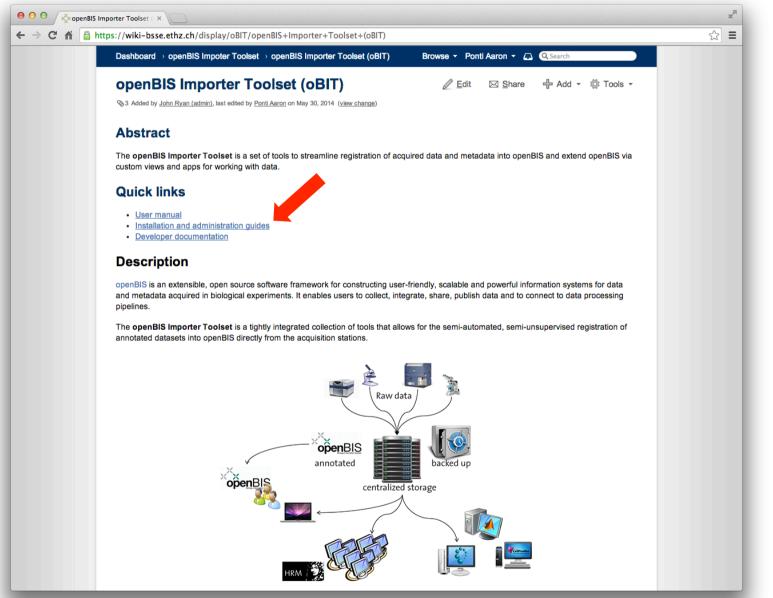


openBIS - new technologies





https://wiki-bsse.ethz.ch/display/oBIT



Single Cell Unit / D-BSSE





Summary

- The openBIS/openBIS Importer Toolset synergy aims to:
 - offer a powerful and scalable data and metadata management system
 - streamline data registration directly from the acquisition machines
 - support multiple acquisition hardware classes
 - offer a reasonably simple way for third parties to add support for new hardware classes





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openBIS http://www.cisd.ethz.ch/software/openBIS

oBIThttps://wiki-bsse.ethz.ch/display/oBIThttps://www.scs2.net/next/index.php?id=150https://github.com/aarpon