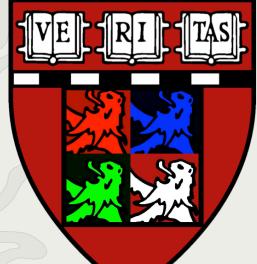


Deploying OMERO at Harvard Medical School

HMS Image Management Core HMS Research IT Solutions



Jay Copeland, Director Image Management Core OME2017 May 31, 2017

2010 LINCS-OMERO

OMERO used as back-end image server for HCS data in HMS LINCS Database

Not a general purpose OMERO server

🗯 Grab	File Edit	Cap	ture Window	Help	p		•	⊠ \$ 4 8	0 🛧 🕆 🔒 🕚	○ * 奈	🔄 📢)) 100% 🕼 T	ue 9:45 AM Jay	/ Copeland	५ 💿	Ξ
/	Datasets -	HMS LIN	NCS Databa: × 🤅	Wel	bclient		× Phosphory	lation state and prot	× Phosphorylation s	tate and prot ×					Jay
$\leftrightarrow \Rightarrow C$	(i) lincs.hm	is.harva	ard.edu/db/datas	ets/2	0219/results_	ninimal?pa	age=2#				🖈 👜 🛈 🔤	۵ 📊 ۵	L 🛆 🖾 🤇	. • 🗆	1 :
	orylation s				s measured			nelanoma cell	lines monitored b	y imaging -	Dataset (ID:20219)			
					8 = 8		Colo858-s	signal1 [Colo858-s	ignal1 Well D5 Field #1]			Download: Excel	(XLSX), Com	na-separate	ed (CS)
Filter results:	>>>> evious Page	2 of 29	<u>Next >> ></u>	_	Secure htt	os://lincs-c	omero.hms.harva	rd.edu/webclient/i	mg_detail/446445/				1	per page:	25
<u>Small</u> Molecule	Cell Line	2nd Drug	Drug Concentration	Cc Ur	Viewing Opt Normal Max Intensity	ons	 ● ●	2 A				Measured Protein Value (647)	Replicate	<u>Plate</u> Name	Plate Well
JNK-IN-8	COLO 858		0.3200	uN	Split Channel Quality Norr		Θ		1016	21	(204)	686.67	1	Colo858- signal1	D5
JNK-IN-8	COLO 858		0.1280	uN	Zoom (%			S. 17	1. A. S.		(204)	691.16	1	Colo858- signal1	D6
JNK-IN-8	COLO 858		0.0512	uN	Line Plot Rendering D		243	Sec. 24	har all	6 ayi	(204)	673.40	1	Colo858- signal1	
JNK-IN-8	COLO 858		0.0205	uN	Channels - HOECHST 33			No.		13	204)	657.25	1	Colo858- signal1	
JNK-IN-8	COLO 858		0.0082	^u N	Alexa 488 Ale	Edit 342 (a 568	XA-7				(204)	648.15	1	Colo858- signal1	
JNK-IN-8	COLO 858		0.0033	uN	Grayscale Rendering Se						(204)	615.32	2	Colo858- signal1	
JNK-IN-8	COLO 858		0.0000	uN	Copy Pa Interpolate		A. Sala			1	(204)	601.12 789.95	2	Colo858- signal1 Colo858-	
JNK-IN-8	COLO 858		2.0000	uN	Current Im Z: 1/1 T: 1	-		** >			(204)	724.41	2	signal1 Colo858-	
JNK-IN-8	COLO 858		0.8000	uN	Scale bar Image Inform	ation		a ser de	3 - A		(204)	719.29	2	signal1 Colo858-	
JNK-IN-8	COLO 858		0.3200	uN	Image Lin ROI Count	0			Timepoints		204)	673.10	2	signal1 Colo858-	
JNK-IN-8	COLO 858		0.1280		< Prev Next > © 2007-2016 Glencoe Software Inc. All rights reserved.							675.31	2	signal1 Colo858-	
JNK-IN-8	COLO 858		0.0512	uM	24 hr		p27 Kip1	429.12	p-Rb(S807/S811)	167.32	p-ERK(T202/Y204)	661.59	2	signal1 Colo858-	E7
JNK-IN-8	COLO 858		0.0205	uM	24 hr		p27 Kip1	437.19	p-Rb(S807/S811)	168.12	p-ERK(T202/Y204)	644.13	2	signal1 Colo858-	E8





HMS OMERO

- 2015 Application and internal funding for two year pilot; establishment of Image Management Core (IMC); Douglas Russell hired; hardware purchased and building server begins
- 2016 Beta testing of HMS OMERO begins





Current Development Projects

- OMERO.forms (Douglas Russell)
- Horizontal Scaling Phase 1, Read-Only OMERO (Glencoe)
- OMERO.cloudarchive (Douglas Russell)
- CycIF collaboration/PathViewer 2 (Zoltan Maliga, Jerry Lin, Sorger Lab/HiTS, Glencoe)





Future Goals

- Full production service owned by HMS IT by 2018
- Making OMERO default storage location at HMS microscopy cores
- Solutions for data archiving, bulk export and removal
- Sustainability



