



Noteworthy recent enhancements and a preview of things to come

Kellan Gregory, Director of Product Management David Blondeau, Head of Software Development and Security Officer

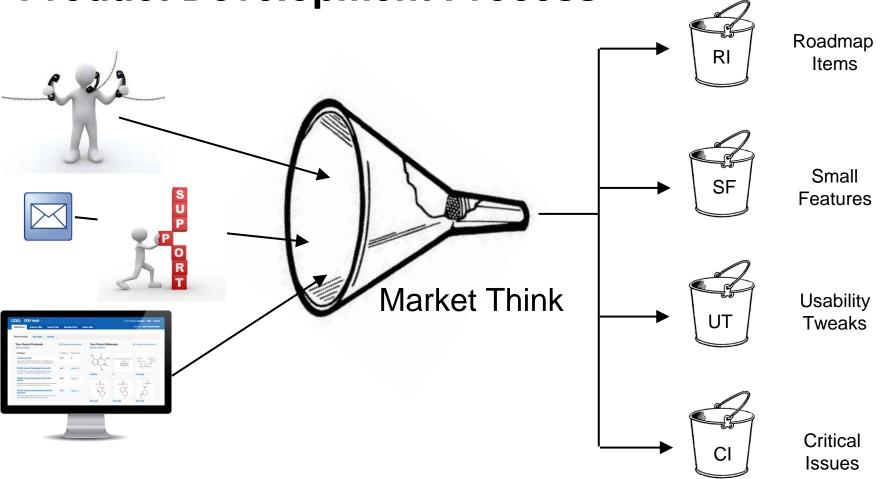


CDD = Community Driven Development

Archive, Mine, Collaborate

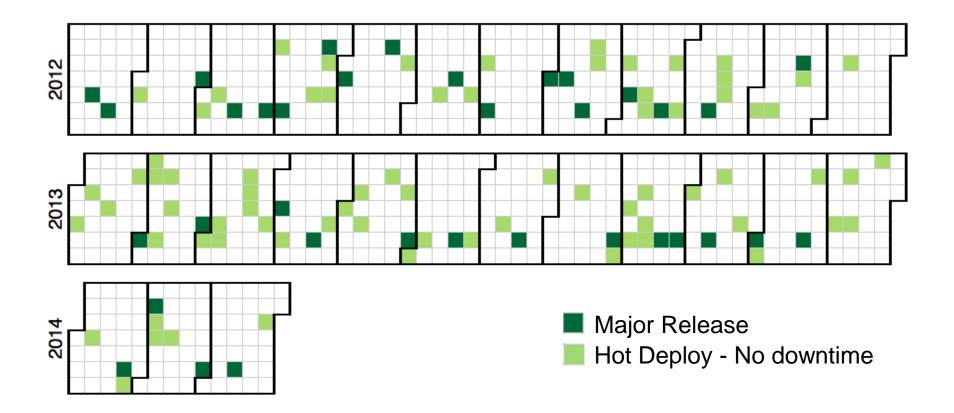


Product Development Process





100+ Updates in the last 2 years





Community Shout Outs

- Jim McKerrow
- Ken Duncan
- Fraser Glickman
- Jeff Blaney
- Enrique Michelotti

And many more that participated to contextual inquiry and usability testing sessions

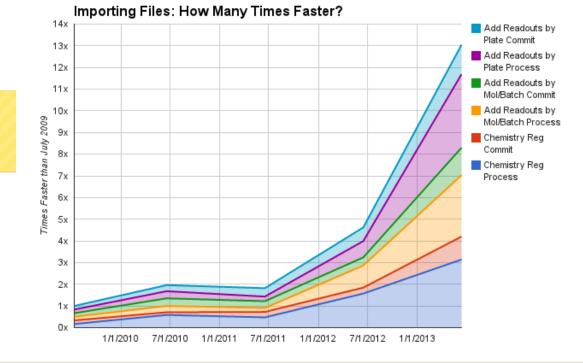


Recent Enhancements



Faster Data Import

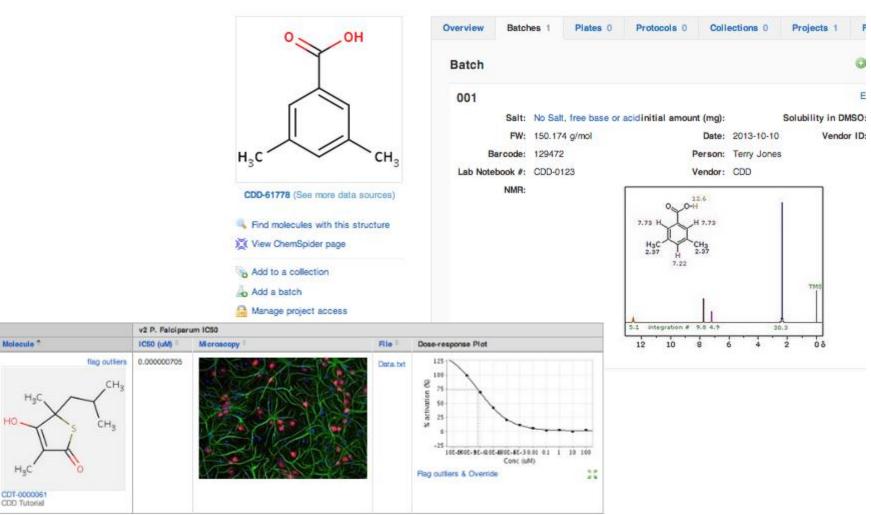
Workbook4.csv	April 2, 2013	Awaiting confirmation
Lesson2_CMPD_Library.csv	April 2, 2013	Awaiting confirmation
Workbook12.csv	April 2, 2013	Queued (#1)



Your Current Imports: Workbook4.csv Processed (1 Error) Email me updates Workbook12.csv Queued (#1) Email me updates click to view QC report



Full Analytical Data Round Trip



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Select

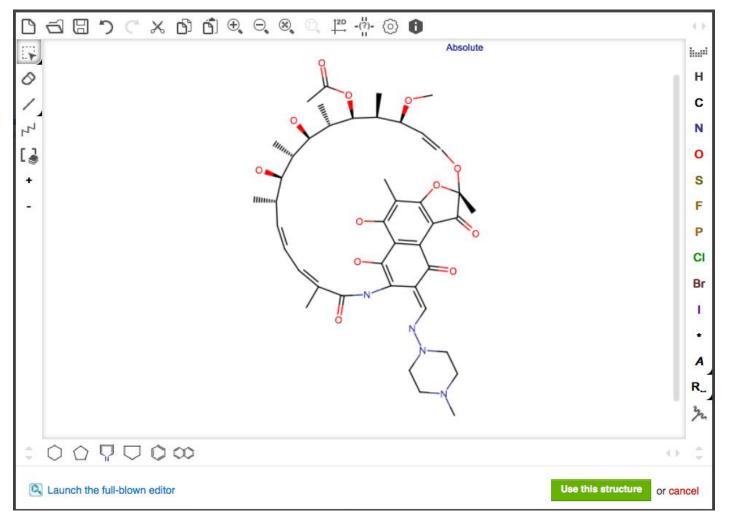
~

H_oC

all none

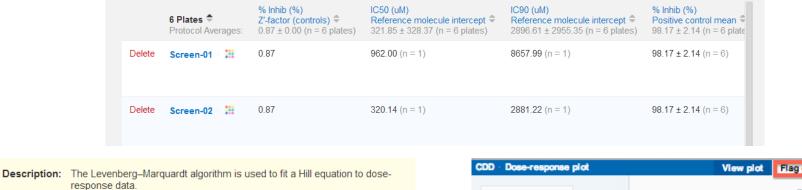


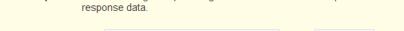
Fast Modern Structure Editor

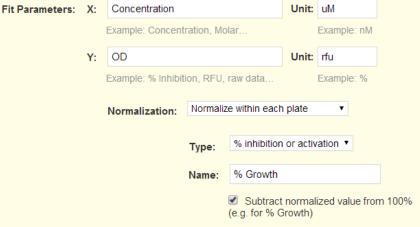


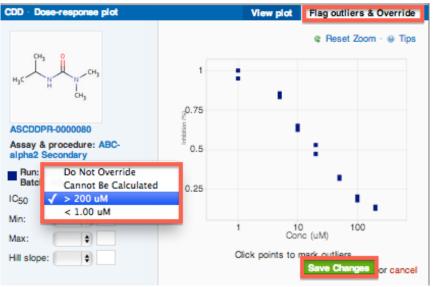


Validating Dose-Response Curves











Reports and Alerts

shboard Explore	Data Import Data	Manage Vault		You a	are a Vault Administr
ecent Activity Me	ssages Reports				
/ault activity fron	n July 1, 2012	🛃 to September 30, 2012	Go		Export report (csv)
Project	New Batches	New Molecules	New Protocols	New Runs	New Readouts
CDD Tutorial	8	4	2	7	1,325
CRO Biology	0	0	0	1	0
CRO Chemistry	260	230	0	0	0
Total	266	231	2	8	1,325

CDD Weekly alerts for vault CDD Tutorial

Batch

Terry Jones created batch 002 for molecule CDT-0000004

Manage your alerts.



Collections

4 Selecte	ed Results: 💅 Plot results 🐁 🔒	Export results - So Add results to collection -
Select		
all · none	Molecule *	
	CDD-30 summary	Add Selected Results To Collection
	N	Add to: New collection Existing collection
		There is already a collection with this name. Do you want to overwrite it?
	CDT-0001297 CDD Tutorial	
	CDD-30 summary	Name: hits parade
		Project: (Select a project) 💠 or 🗹 private collection
1		Overwrite: Ves, overwrite existing collection
	alprazolam Known drugs	Save or cancel



CDD Vault Enterprise API

- Integrate CDD Vault with other data sources or internal tools
- Extend CDD Vault functionalities
- Read and Write Fine grained and Bulk

CDD, De	omo User			Account
Dashboard	Explore Data			
Preferences Your	API Keys			
Name	a new key	Role	Token	



CDD Vault Enterprise API Extensions



Archive, Mine, Collaborate

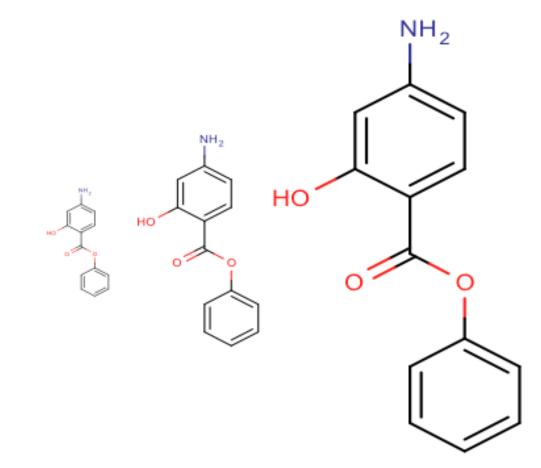


Configurable Batch Registration Rules

Name	Data Type	Must be Unique	This Field	
Batch Name			is auto-generated	Remove · DRAD
Salt/Stoichiometric Ratio			is auto-generated	Remove · Exce
Formula Weight			is auto-calculated	Remove · mea
External Identifi	Text \$	đ	or Vendor is required \$	Remove - Immo
Vendor	Text \$		or External Identifier is required	Remove - Immo
Date	Date \$		is required	Remove - 🚥
Person	Text \$		is required	Remove - Imme
Amount (mg)	Number \$		is optional	Remove - Imme
Note	Text \$		is optional 🗘	Remove - Imme
	"State	" will be remove	d (No batch data associated)	
	Text \$		is optional	Remove - Imm
Add a batch field	pared across all batch	fields within the	vault.	batch fields or cancel

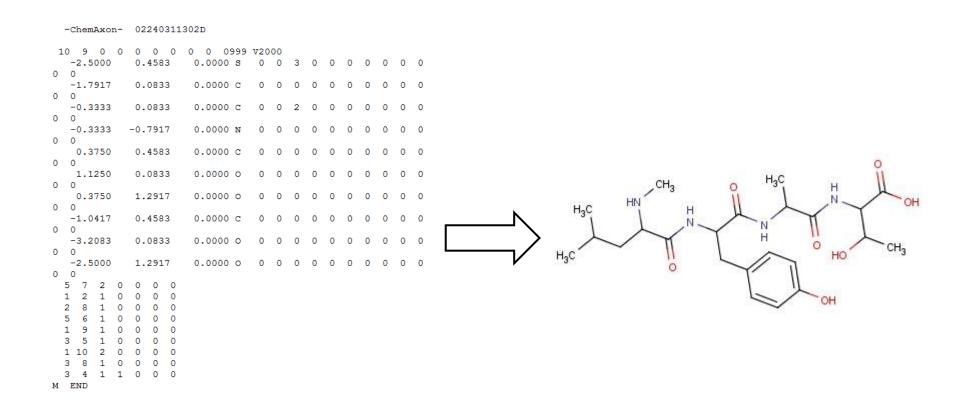


Scalable Images in Excel





Preserve Molecule Orientation





Stay Up To Date

DD. CDD Tutorial							Terry Jones: Account · Help · Log		
Dashboard	Explore Data	Import Data	Reports	Manage	Settings		You are a Vault Administrate		
		\sim		ww		\sim			
		\sim				\sim			



What's Next?



Protocol Conditions

Explore related assay protocols simultaneously...when only conditions differ

- Designate one or more readout definitions as Protocol Conditions
- Any calculation or post-processing activities will respect conditions
- Benefits:
 - Consolidate protocols for multiple strains & cell lines
 - Version tracking
 - Capture later stage data more effectively: number of compounds decrease but the number of conditions vary dramatically



Molecule 🗢		AKT1 Activity Value ≎	AKT2 Activity Value 🗢	AKT3 Activity Value 🗢
HN CH3	flag outliers	20.0	6.5	5.0
H ₃ C ⁰ /// _(R) ^(R)		290.0	9.0	10.0
H ₃ C (5) 0		460.0	44.0	10.0
		290.0	6.5	170.0
		1.5		0.64
$\rangle = \langle$		6.0		
NH O		11.0		
CHEMBL-162 CDD Vault		1.5		

	Kinase Assay					
Molecule 🕈	Target (short name) 🇢	Target (full name) 🇢	Species 🗢	Lab 🗢	Compound Coration (uM) 🗢	Inhibition (%) 🗢
flag outliers	AKT1	Serine/threonine- protein kinase AKT	Homo sapiens	Nanosyn	0.10	-0.33
	AKT1	Serine/threonine- protein kinase AKT	Homo sapiens	Nanosyn	1.0	0.80
N	AKT2	Serine/threonine- protein kinase AKT2	Homo sapiens	Nanosyn	0.10	0.45
HN	AKT2	Serine/threonine- protein kinase AKT2	Homo sapiens	Nanosyn	1.0	0.89
	АКТЗ	Serine/threonine- protein kinase AKT3	Homo sapiens	Nanosyn	0.10	0.35
K2-000001 Kinome2	АКТЗ	Serine/threonine- protein kinase AKT3	Homo sapiens	Nanosyn	1.0	0.80

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Self Administration

D, CDD	Vault 🖂						Simon Sn	nith: Account Help Log
shboard E	kplore Data	Import Data	Reports	Manage	Settings			You are a Vault Administ
ojects Memb	oers							
Search members		Go	l			Add a	a member (licenses remain	ing: 3 read-only, 1 read/write)
00 Members	Showing	10 • per page	•				Previous	Page 1 of 20 Nex
Member 🗢			Role 🗢		Projects 🗢		Last Login 🗢	
Randy Sabin co	RE		Vault Admin		5		Today	Remove
Kay Skeens			Vault Admin		3		Yesterday	Remove
Luis Engel			Full Access		1		2 days ago	Remove
Rosalie Villalba			Read-Add		4		1 week ago	Remove
Sheila Metzger			Read Only		1		2 months ago	Remove
Eugene Sosa 🚥	DRE		Vault Admin		1		1 year ago	Remove
Walter Espino			Full Access		2		2 years ago	Remove
Willie Villalobos	DISABLED		Read-Add		1		3 years ago	Remove
Albert Glover			Full Acess		3		Never	Remove
Terry Lujan INVIT	ED		Vault Admin		0		Never	Remove
							Previous	Page 1 v of 20 Nex
							Frevious	



Self Administration

(CDD, CI	DD Vault 🖙					Simon Smith: Account Help Log out
	Dashboard	Explore Data	Import Data	Reports	Manage	Settings	You are a Vault Administrator

Back to Members

Invite a New Member to Your Vault

New Member Detail	S	Invitation Email Preview
First Name: Last Name:		Hi [Name], Simon Smith has invited you to the CDD Vault vault on
Email:	The new member will receive an email invitation here.	Collaborative Drug Discovery, a web application for intelligent data management and secure collaboration. Click this link to get started:
Access Role:	Read Only	https://app.collaborativedrug.com/invitation /adoifu29384723eijdf
Core Member:	Automatically add this member to new projects.	Simon also says:
Biologist:	Member cannot modify molecules and batches.	You can include a personal message here.
Mask Structures:	Hide molecule structures from this member.	
Allow Downloads:	Allow member to download documents.	li li
Allow Export:	Allow member to export search results.	

or cancel

Send Invitation



Self Administration

Iready a CD	D Vault User?	New to CDD Vault?	
Username:	kgregory@collaborativedrug.com	First Name:	Kellan
Password:		Last Name:	Gregory
	forgot your password?	Email:	kgregory@collaborativedrug
	Accept Invitation		This will be your username.
		Password:	Password requirements go here.
			Create Your Account
		By registering, you agree	e to abide by CDD's Terms of Use



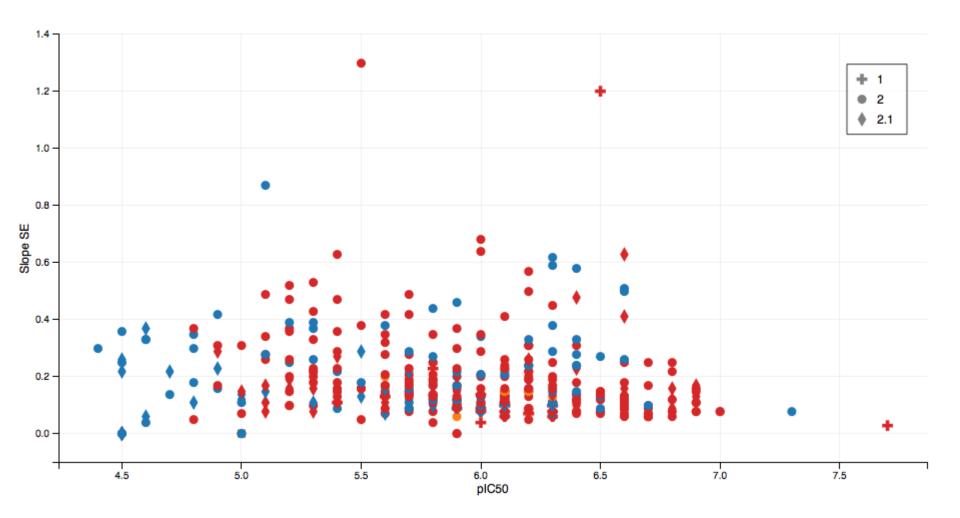




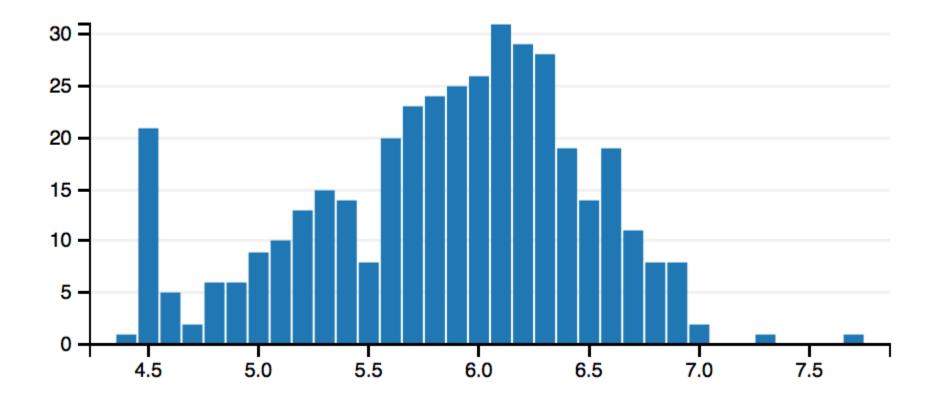
Calculated Readout Definitions

Name:	Something Calculated			
Data Type:	Number 💌	Display Format:	3 significant figures	<u> </u>
Unit:				
	Example: nM, kg, rfu			
Formula =	1			
				1.
Description:	P.falciparum(3d7): IC50	ration		
	P.falciparum(3d7): concent P.falciparum(3d7): OD	ration		
	P.falciparum(Dd2): IC50			
	FP: CFP (414nm)			
	FP: YFP (525nm)			
	Inventory: Initial Amount (m	ng)		
	Inventory: Amount Debited	(ma)		

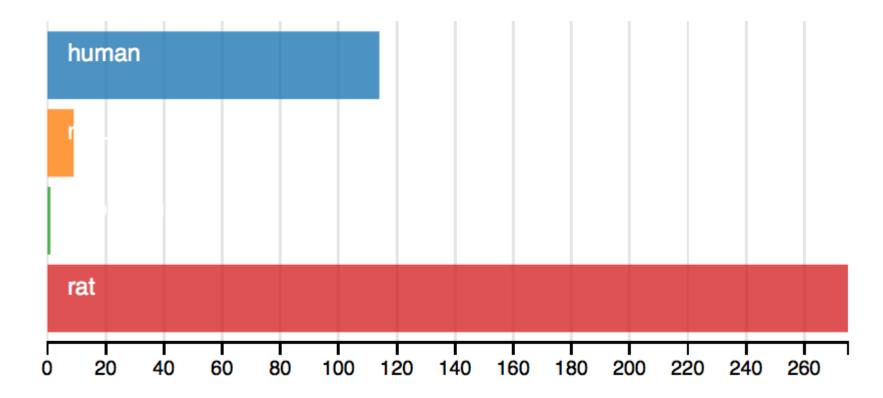




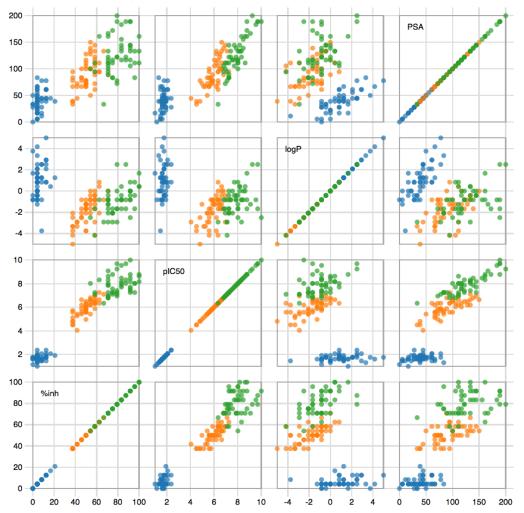














Questions?

Archive, Mine, Collaborate



Feedback or Requests?

- Chat with us today
- Contact us anytime
 - Kellan: <u>kellan@collaborativedrug.com</u>
 - David: <u>david@collaborativedrug.com</u>
 - Support: <u>support@collaborativedrug.com</u>
 - Sales: info@collaborativedrug.com