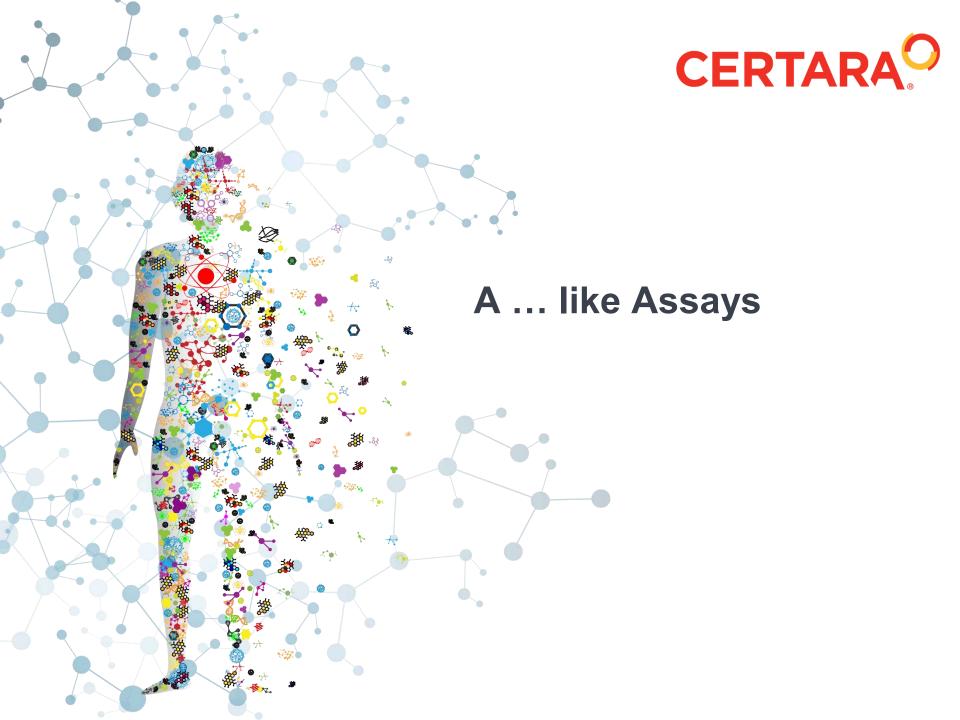


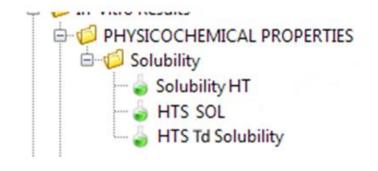
Preface

- D360 flexible configurable system
 - Core product installer for all customers
 - Customer specific configuration & plugins
- Data catalog mapping customer data sources into D360
- Extendable through configuration, scripting, coding



The Evergreens: Super Assays & Assays Groups

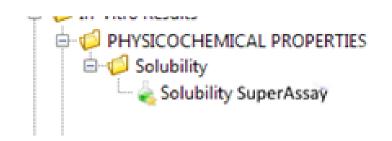
 Results from multiple, equivalent assays represented in more columns than necessary.



Spreadsheet View [1]									
	ChEMBL Id	Structure	Solubility HT A Mean SOL (ug/ml) pH: 4.500	Solubility HT Mean SOL (ug/ml) pH: 6.800	Mean Solubility (ug/ml) pH: 4 500	Mean Solubility (ug/ml) pH: 7.400	HTS Td Solubility Mean Sol (ug/ml) pH: 4.500	HTS Td Sol Mean Sol (ug/ pH: 6.8	
1:	☐ CHEMBL 1241676	The state of the s	0.130	0.110					
2.	CHEMBL1242568	a de			0.650	2.050			
3:	☐ CHEMBL1242656	3					320,000	22	

The Evergreens: Super Assays & Assays Groups

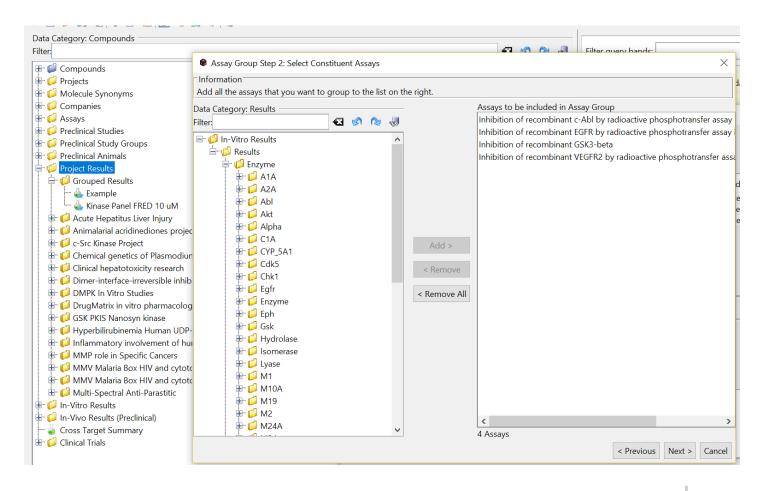
 Same assays combined into a Super Assay so they appear as single assay



Spreadsh	neet View [1]				
	ChEMBL Id	Structure	Solubility SuperAssay Mean Solubility (ug/ml) pH: 4 500	Solubility SuperAssay Mean Solubility (ug/ml) pH: 6 800	Solubility SuperAssay Mean Solubility (ug/ml) pH: 7.400
1:	CHEMBL1241676	3	0.130	0.110	
2	☐ CHEMBL1242568	a di	0.650		2.050
3:	CHEMBL 1242656	a di	320.000	2200.000	

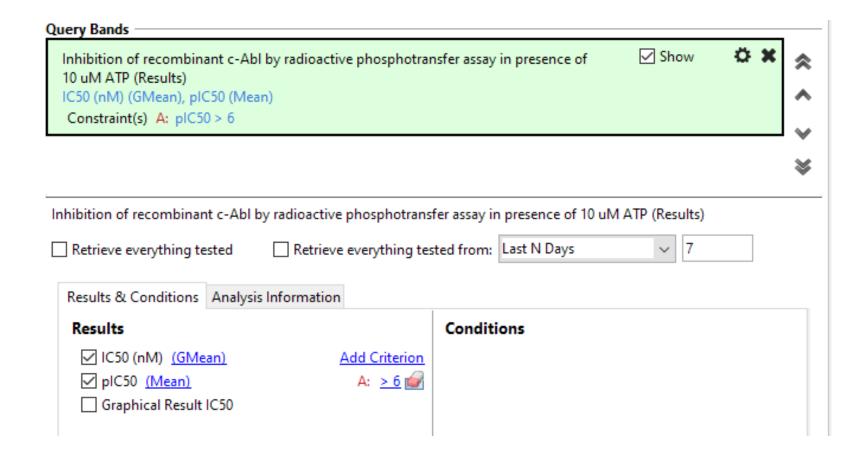
The Evergreens: Super Assays & Assays Groups

 An Assay Group is a "fake" assay that allows retrieval of the results of multiple assays much more easily and keeps the results from individual assays separate



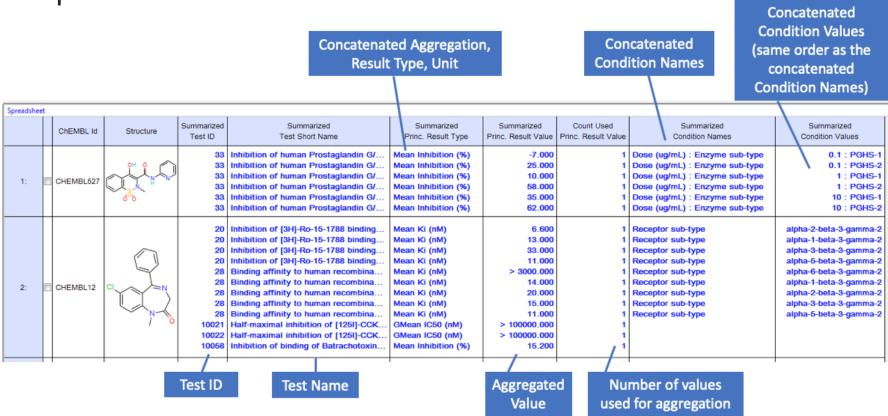
NKOTB - Negative log Results

Negative log Results



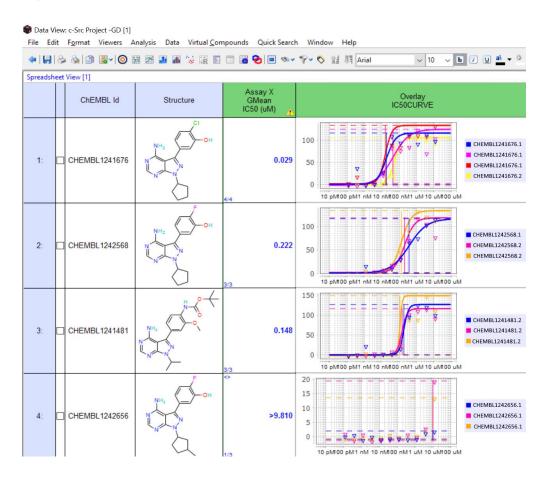
NKOTB - BioProfile Summary

 Most important assay results for all the assays that a compound has been tested in using a compact table representation.



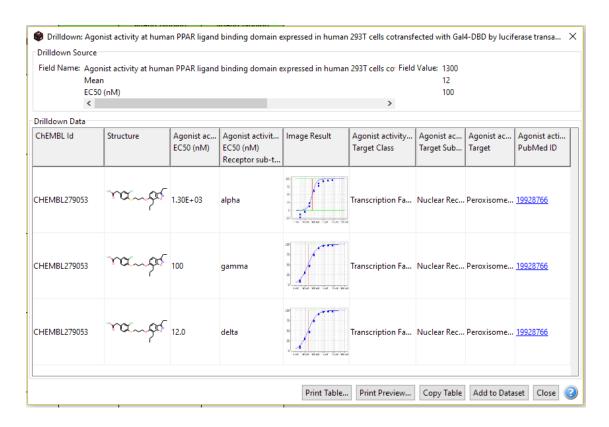
Dose-response curves rendering

 Curve renderer that reproduces fitted dose response curves from result parameters



Drilldown templates

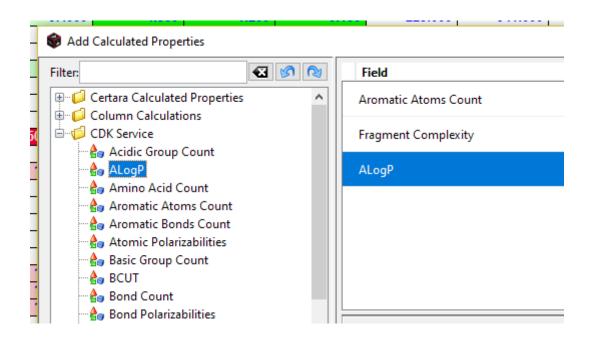
- Default drilldown table content can be modified and extended.
 - Change order of columns
 - Pull in additional result types & data fields



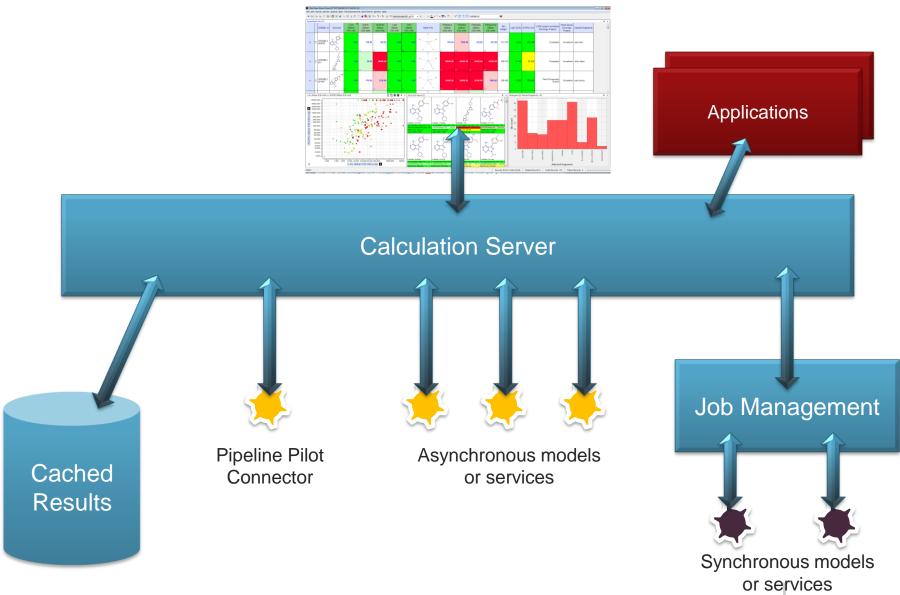


Integration with Web Services

- Direct integration into D360 client
 - Property calculations
 - Compound lookup
 - Support for async. and sync. services.

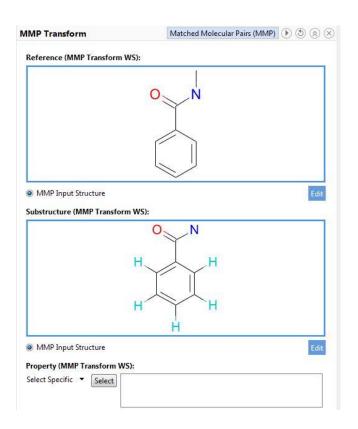


Calculation Caching Server



Web Services as Data Source in D360

- Web services can be configured to some extend to act like a virtual database table/view in D360's middle layer.
 - A search within such a virtual table leads to a web service call.
 - Example: Matched Molecular Pair workflows



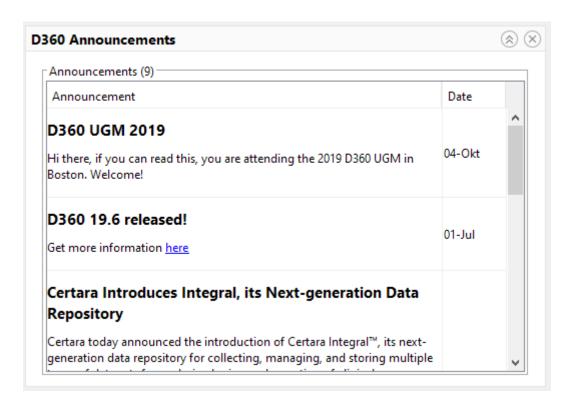
	Product	Count Property	Delta Property	Sigma Property	SMILES_from Property	SMILES_to Property
1:	o Hiz CI	1594	0.211	0.402	—R1	CI-R1
2:	o H	1144	-0.153	0.388	—R1	FR1





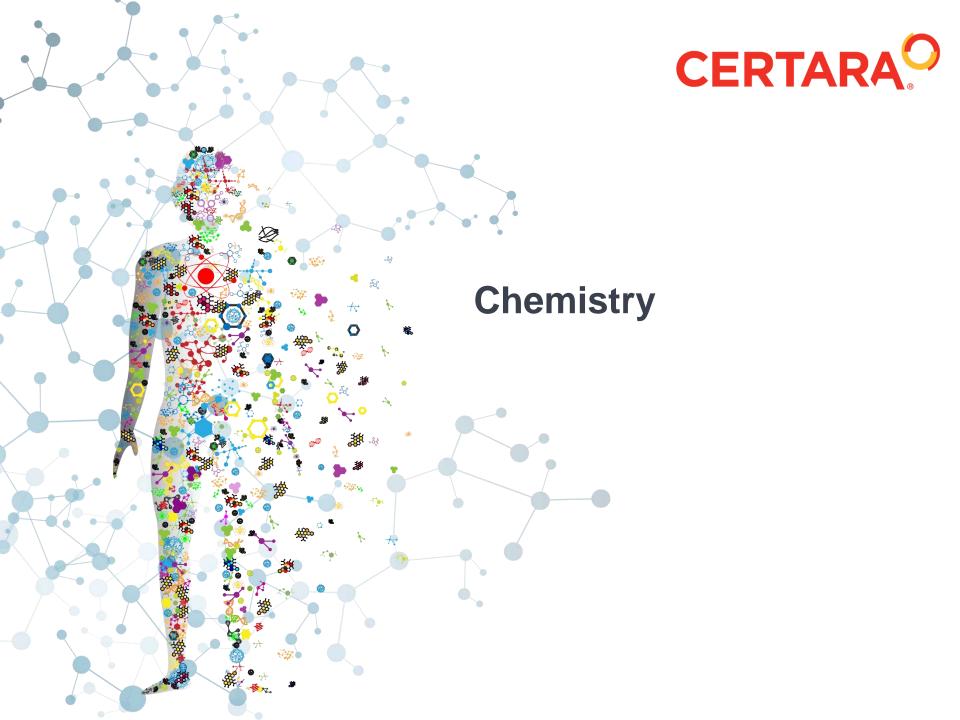
Announcement/News widget

 Database-backed announcement widget displaying the last n announcements to users.



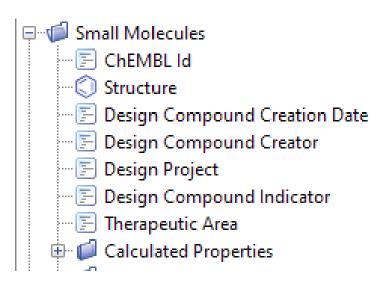
Usability & Security

- Interfaces to manage research projects in D360
- TLS encrypted traffic D360 client-server
- Restricting access to data



Integration with Virtual/Design Compounds

- Existing virtual compound repository data can be integrated into the standard "Compound" data category such that:
 - Standard queries can retrieve both real and captured virtual compounds.
 - Additional data can be stored about virtual compounds using D360's annotation system

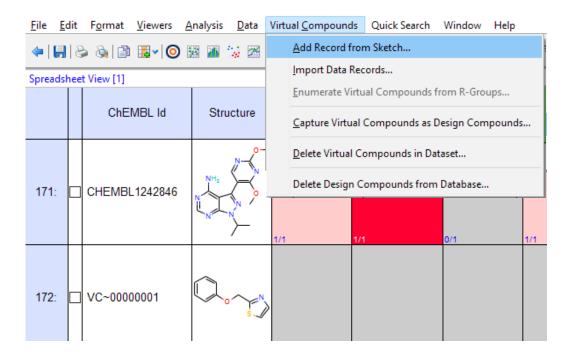


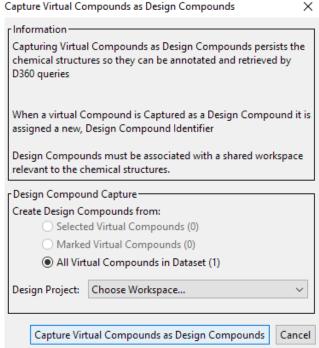
Integration with Virtual/Design Compounds

Spreadsheet								
		ChEMBL Id	Structure	Design Compound Indicator	c-Src project comments (Oncology Project)	c-Src Mean IC50 (nM)	c-Src Mean plC50	c-Src Graphical Result IC50
1:		CHEMBL1421	purpor.	N	Completed	1	9	75 50 25 0 1 nm 30 nm 100 nm 1 mm 10 mm 100 mm
2:		DC~00011147		Y	Not interesting			
3:		DC~00011143		Y	Prioritize for synthesis			
4:		CHEMBL535		N	Sutinib;Submit	400	6.40	25 100 10 nm 10 nm 1 1 mm 10 mm 900 mm

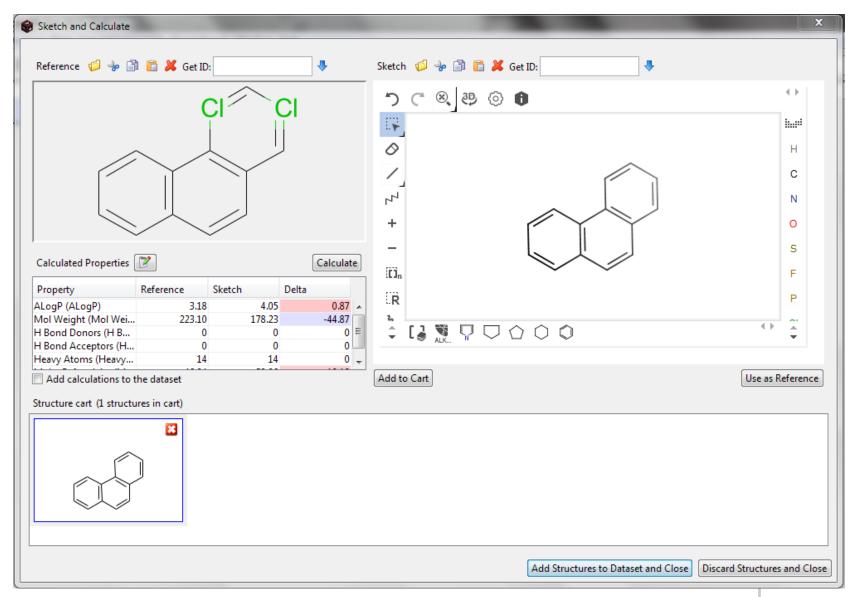
Capturing Compound Ideas

- A D360 dataset may contain real and virtual compounds
 - Sketched into the dataset or imported from a file.
- D360 Capture allows virtual compounds in the dataset to be captured as design ideas.





Custom Sketch & Calculate interface



And so ends our story ...

- Wait ... are there more stories you can tell? Yes, of course:
 - Custom follow on actions, involving scripting and widget-like interfaces
 - Custom menu entries and right click menus, such as an assay lookup facility
 - Plugins that fetch structures from extra databases for firewalled projects based on the user id
 - 0 ...
- The D360 services team is at your disposal to entertain you with more stories of 1001 configurations and help you to bring them to life in your D360 environment.