

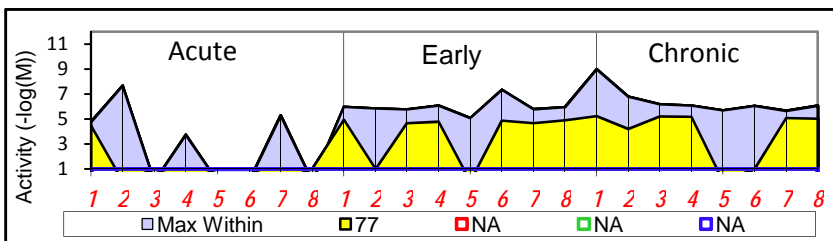


Classification		Safety Rank	Safety Risk Index		
		1/194	High Risk		
Indicators		#	Measured Effects		
			1 hr	AC ₅₀ (M)	
				24 hr	48 hr
Maximum Tolerated Dose			>70% Cell Loss		
Earliest Toxic Indicator			Cell Loss		
Most Sensitive Toxic Indicator			Cell Loss		
General Indicators of Toxicity		1	Cell Loss		
		2	Nuclear Size		
Mechanistic Indicators		3	DNA Damage Response		
		4	Apoptosis		
		5	Lysosomal Mass		
		6	DNA Fragmentation		
		7	Mitochondrial Potential		
		8	Steatosis		
			*	- Excluded	
				- No Activity	
				- Not Measured	
Compound Correlations		Within Test Set		With CellCiphr® Database	
Compounds with a threshold Pearson's correlation coefficient of 0.8 or higher					

Profile Similarity Plots

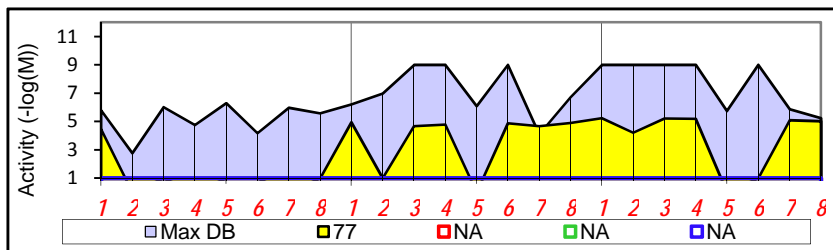
Profile Similarity Within Test Set

Report compound (yellow)
Compounds in this set (r, g & b).
X-axis: Acute, Early and Chronic Features #1-10 as above.
Y-axis: - Log(AC50) (3 = mM, 9 = nM)



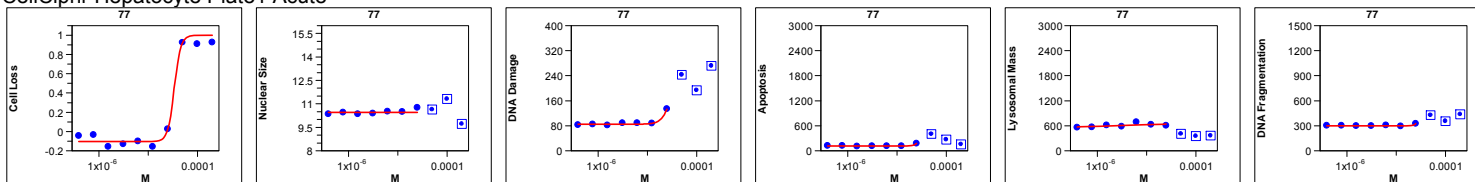
Profile Similarity With CellCiphr DB

Report compound (yellow)
CellCiphr DB compounds (r, g & b).
Gray background represents maximum response in the set (top) and DB (bottom)

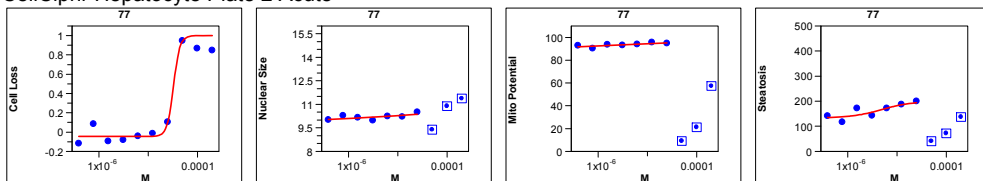


Observations on Compound Physical Properties

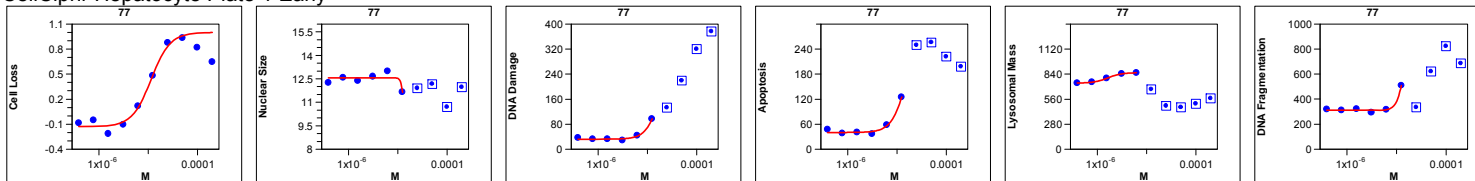
CellCiphr Hepatocyte Plate 1 Acute



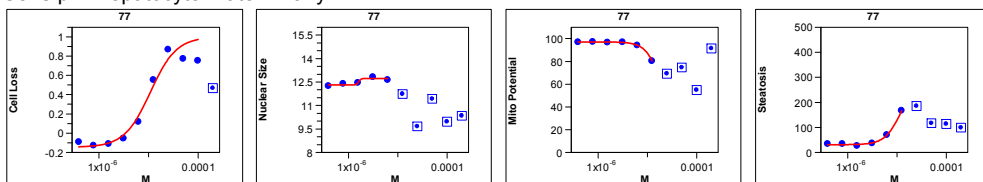
CellCiphr Hepatocyte Plate 2 Acute



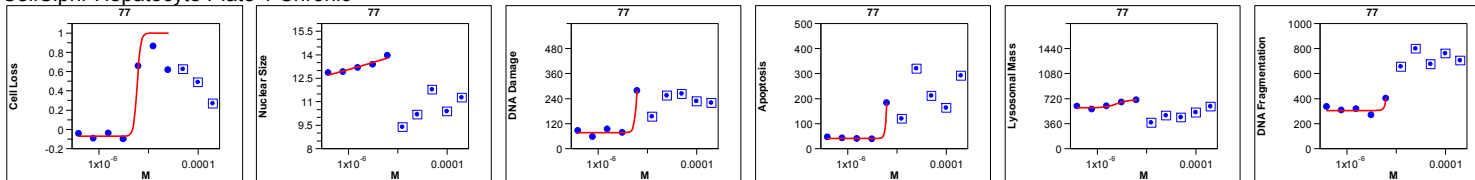
CellCiphr Hepatocyte Plate 1 Early



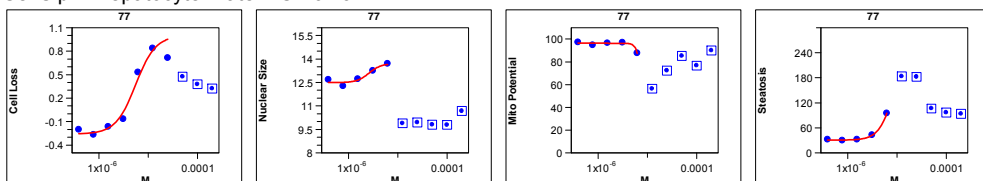
CellCiphr Hepatocyte Plate 2 Early



CellCiphr Hepatocyte Plate 1 Chronic



CellCiphr Hepatocyte Plate 2 Chronic



CellCiphr Hepatocyte Plate 1 Acute

Feature Cell Loss			Feature Nuclear Size			Feature DNA Damage			Feature Apoptosis			Feature Lysosomal Mass			Feature DNA Fragmentation		
Curve Fit			Curve Fit			Curve Fit			Curve Fit			Curve Fit			Curve Fit		
AC50	3.4E-05	Mean 129	AC50	1.1E-03	Mean 13	AC50	3.3E-05	Mean 88	AC50	4.3E-05	Mean 138	AC50	5.3E-06	Mean 592	AC50	3.3E-05	Mean 273
Min	-0.10	StDev 13	Min	11.39	StDev 2	Min	84.92	StDev 19	Min	113.87	StDev 22	Min	329.16	StDev 13	Min	299.39	StDev 15
Max	1.00		Max	9.50		Max	300.00		Max	2800.00		Max	900.00		Max	1000.00	
Slope	-6.65		Slope	0.00		Slope	-4.44		Slope	-7.10		Slope	-0.12		Slope	-11.64	
R^2	0.99		R^2	0.64		R^2	0.98		R^2	0.97		R^2	0.32		R^2	0.83	
Fit QC	Pass		Fit QC	NCF		Fit QC	NCF		Fit QC	NCF		Fit QC	NCF		Fit QC	NCF	

CellCiphr Hepatocyte Plate 2 Acute

Feature Cell Loss			Feature Nuclear Size			Feature Mito Potential			Feature Steatosis		
Curve Fit			Curve Fit			Curve Fit			Curve Fit		
AC50	3.3E-05	Mean 128	AC50	1.2E+01	Mean 10	AC50	1.5E-09	Mean 91	AC50	4.9E-06	Mean 162
Min	-0.05	StDev 14	Min	15.16	StDev 3	Min	133.94	StDev 5	Min	133.28	StDev 15
Max	1.00		Max	9.50		Max	40.00		Max	200.00	
Slope	-6.70		Slope	0.13		Slope	0.04		Slope	-1.41	
R^2	0.98		R^2	0.40		R^2	0.57		R^2	0.71	
Fit QC	Pass		Fit QC	NCF		Fit QC	NCF		Fit QC	NCF	

CellCiphr Hepatocyte Plate 1 Early

Feature Cell Loss			Feature Nuclear Size			Feature DNA Damage			Feature Apoptosis			Feature Lysosomal Mass			Feature DNA Fragmentation		
Curve Fit			Curve Fit			Curve Fit			Curve Fit			Curve Fit			Curve Fit		
AC50	1.1E-05	Mean 110	AC50	1.3E-05	Mean 13	AC50	2.1E-05	Mean 30	AC50	1.6E-05	Mean 41	AC50	1.6E-06	Mean 724	AC50	1.3E-05	Mean 289
Min	-0.13	StDev 12	Min	12.56	StDev 3	Min	32.12	StDev 60	Min	40.21	StDev 41	Min	856.36	StDev 16	Min	310.83	StDev 21
Max	1.00		Max	9.50		Max	400.00		Max	300.00		Max	739.11		Max	800.00	
Slope	-2.26		Slope	-16.39		Slope	-2.95		Slope	-2.87		Slope	3.11		Slope	-6.20	
R^2	0.94		R^2	0.68		R^2	0.99		R^2	0.98		R^2	1.00		R^2	0.99	
Fit QC	Pass		Fit QC	NCF		Fit QC	Pass		Fit QC	Pass		Fit QC	NCF		Fit QC	Pass	

CellCiphr Hepatocyte Plate 2 Early

Feature Cell Loss			Feature Nuclear Size			Feature Mito Potential			Feature Steatosis		
Curve Fit			Curve Fit			Curve Fit			Curve Fit		
AC50	1.1E-05	Mean 113	AC50	1.6E-06	Mean 13	AC50	2.1E-05	Mean 97	AC50	1.2E-05	Mean 35
Min	-0.15	StDev 15	Min	12.73	StDev 2	Min	97.11	StDev 3	Min	30.86	StDev 24
Max	1.00		Max	12.31		Max	5.00		Max	300.00	
Slope	-1.66		Slope	18.24		Slope	-2.78		Slope	-2.61	
R^2	0.96		R^2	0.86		R^2	1.00		R^2	1.00	
Fit QC	Pass		Fit QC	NCF		Fit QC	Pass		Fit QC	Pass	

CellCiphr Hepatocyte Plate 1 Chronic

Feature Cell Loss			Feature Nuclear Size			Feature DNA Damage			Feature Apoptosis			Feature Lysosomal Mass			Feature DNA Fragmentation		
Curve Fit			Curve Fit			Curve Fit			Curve Fit			Curve Fit			Curve Fit		
AC50	5.9E-06	Mean 102	AC50	1.2E-04	Mean 13	AC50	6.0E-06	Mean 59	AC50	6.4E-06	Mean 39	AC50	2.5E-06	Mean 616	AC50	6.9E-06	Mean 263
Min	-0.07	StDev 11	Min	20.67	StDev 3	Min	77.18	StDev 31	Min	41.09	StDev 18	Min	702.21	StDev 10	Min	305.36	StDev 16
Max	1.00		Max	9.50		Max	400.00		Max	400.00		Max	587.83		Max	800.00	
Slope	-12.26		Slope	0.16		Slope	-14.63		Slope	-18.95		Slope	3.75		Slope	-14.85	
R^2	0.95		R^2	0.92		R^2	0.98		R^2	1.00		R^2	0.92		R^2	0.76	
Fit QC	Pass		Fit QC	Pass		Fit QC	Pass		Fit QC	Pass		Fit QC	NCF		Fit QC	NCF	

CellCiphr Hepatocyte Plate 2 Chronic

Feature Cell Loss			Feature Nuclear Size			Feature Mito Potential			Feature Steatosis		
Curve Fit			Curve Fit			Curve Fit			Curve Fit		
AC50	5.6E-06	Mean 105	AC50	2.6E-06	Mean 13	AC50	8.1E-06	Mean 95	AC50	9.4E-06	Mean 26
Min	-0.26	StDev 16	Min	12.49	StDev 3	Min	96.33	StDev 4	Min	30.52	StDev 24
Max	1.00		Max	13.70		Max	5.00		Max	300.00	
Slope	-2.15		Slope	-3.58		Slope	-8.64		Slope	-2.81	
R^2	0.96		R^2	0.92		R^2	0.94		R^2	1.00	
Fit QC	Pass		Fit QC	Pass		Fit QC	Pass		Fit QC	Pass	

 -No Curve Fit (NCF)

 - Curve Fit passed QC. AC50 used in the profile