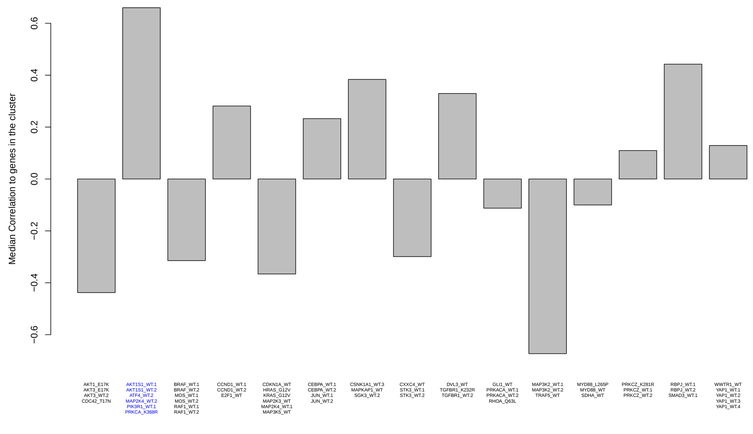
Genes in the cluster along with the pathways as annotated by experts

	Expert Annotation	
Treatment	Pathway	Regulation Type
ATF4_WT.2	Canonical ER Stress/UPR	Activator
MAP2K4_WT.2	Canonical MAPK	Activator
PIK3R1_WT.1	Canonical PI3K/AKT	Activator
PRKCA_K368R	Canonical PKC	Inhibitor
AKT1S1_WT.1	TOR	Inhibitor
AKT1S1_WT.2	TOR	Inhibitor

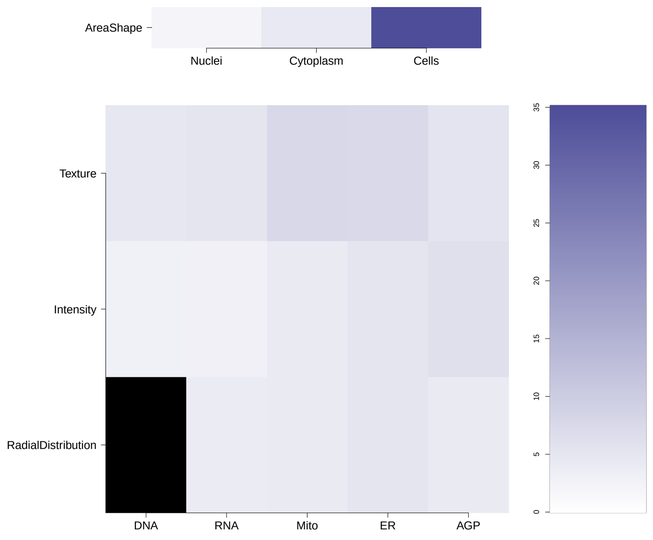
How similar is this cluster to the other clusters?



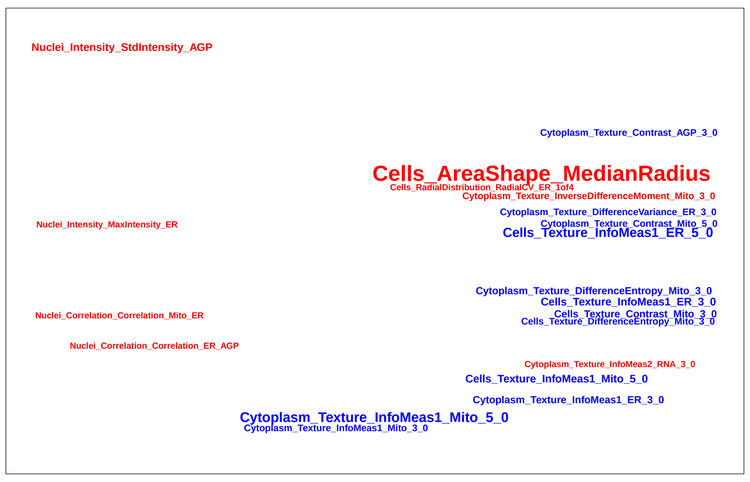
Top 5 genes negatively correlated to the cluster

	Expert Annotation			
Treatment	Pathway	Regulation Type	Mean Correlation	Standard Deviation
MAP3K2_WT.1	Canonical MAPK	Activator	-0.71	0.07
MAP3K2_WT.2	Canonical MAPK	Activator	-0.71	0.07
PIK3CB_WT.2	Canonical PI3K/AKT	Activator	-0.63	0.10
TRAF5_WT	Canonical NFkB	Activator	-0.57	0.02
AKT3_WT.2	Canonical PI3K/AKT	Activator	-0.53	0.06

What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the category



Which individual morphological features are distinguishing in the cluster relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.



How strongly are genes within the cluster correlated?

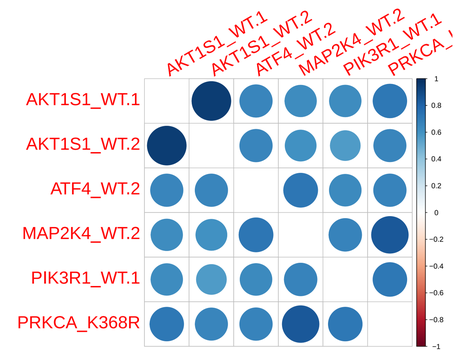
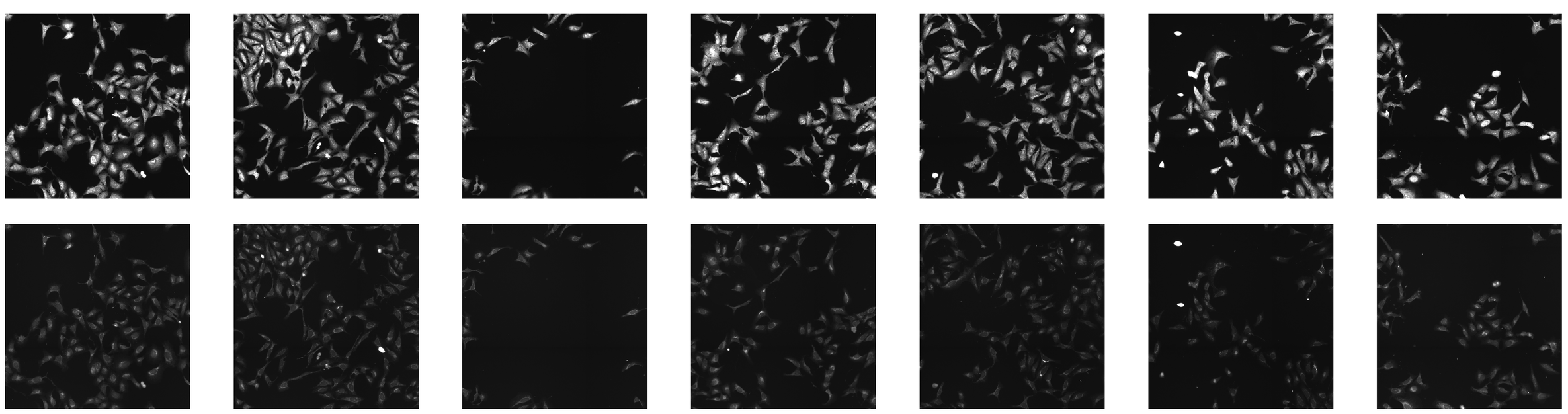
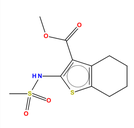
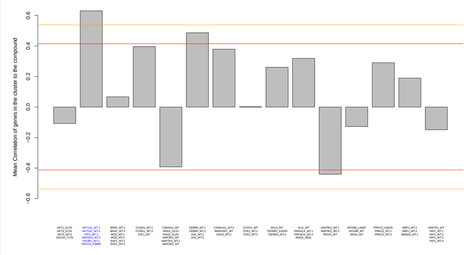
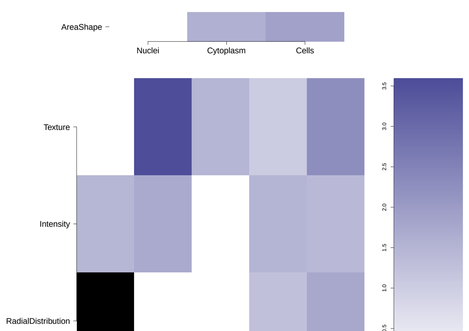
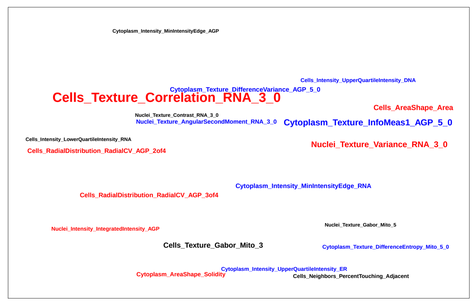
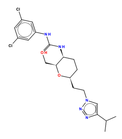
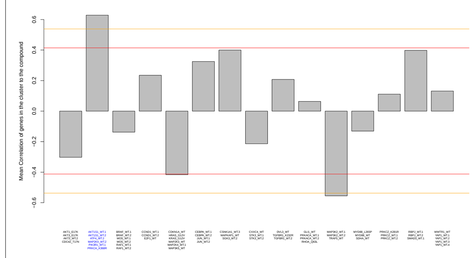
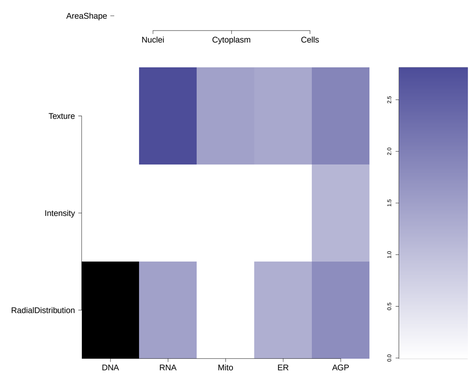
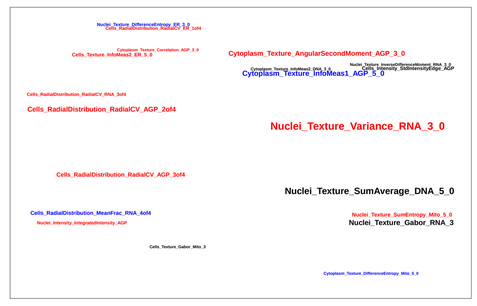
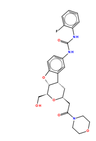
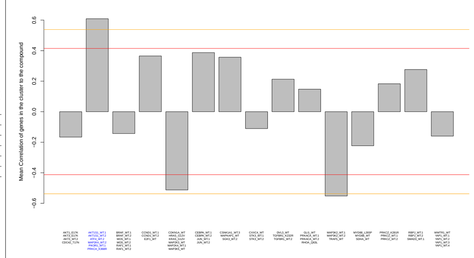
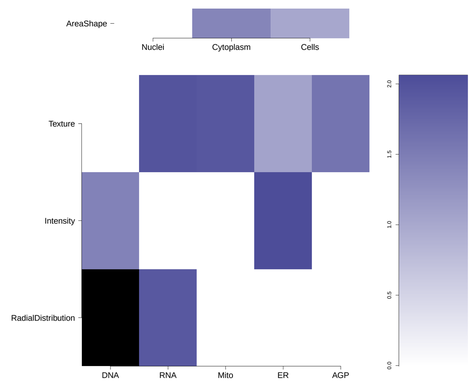
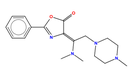
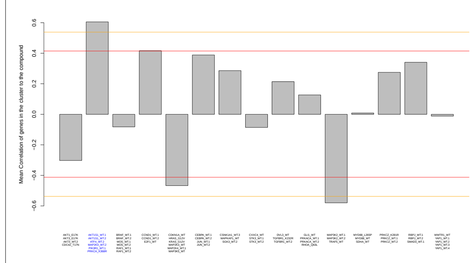
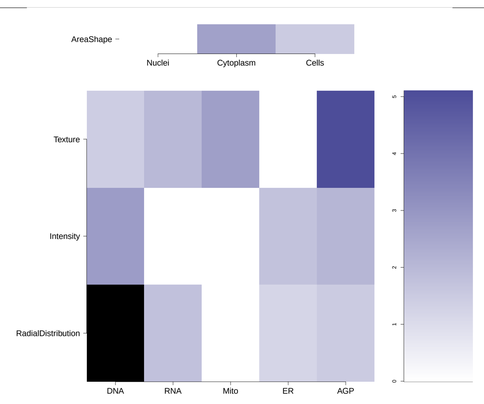
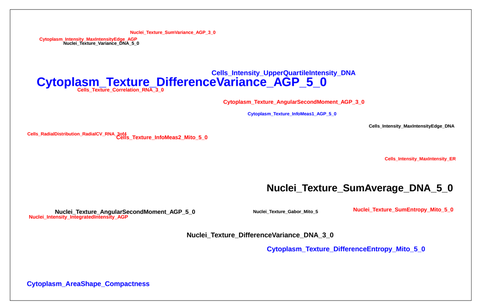
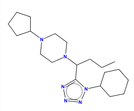
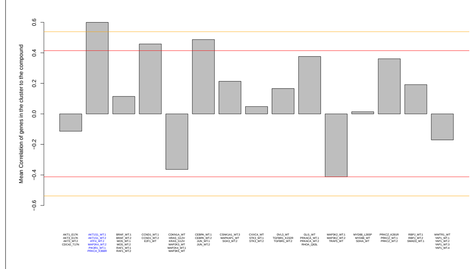
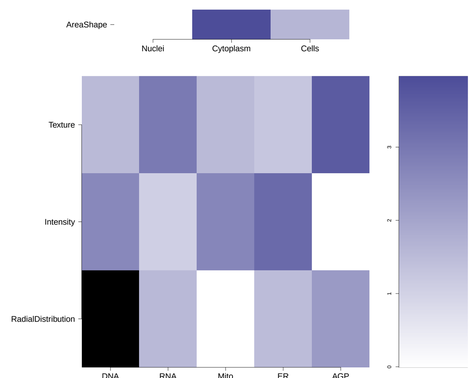
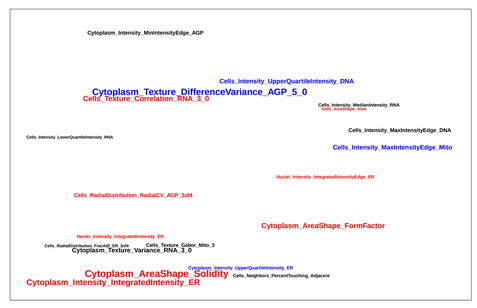
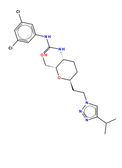
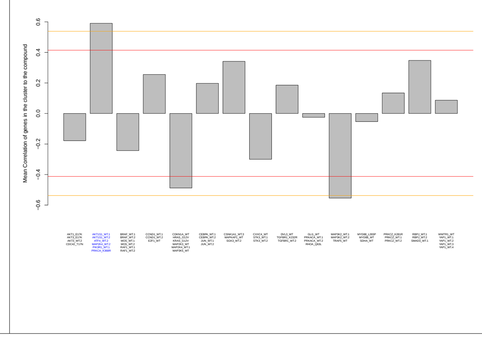
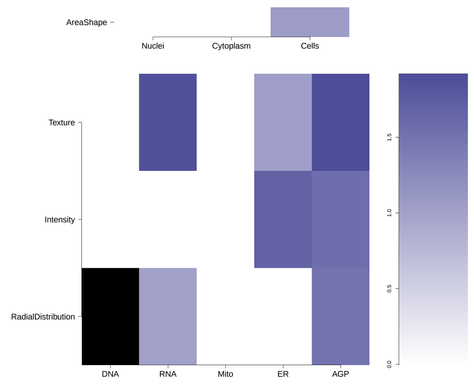
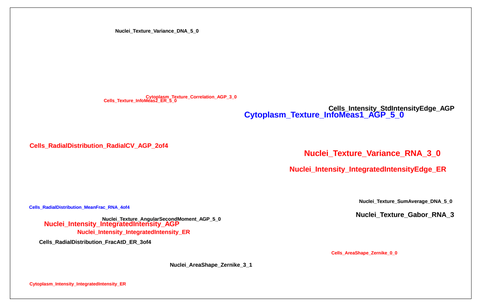


Plate : 41744 - Genes in the Cluster (Channels are sorted based on their dominance in the grid plot)



Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.52)	Mean ± standard deviation correlation between compound and each gene in cluster; Tables contain data for individual genes	Mean compound rank when scored against genes in cluster using L1000 profiling ± standard deviation; Tables contain data for individual genes	How similar is the compound signature to the gene clusters in this experiment? (Yellow and red lines correspond to top/bottom 1st and 5th percentile DMSO correlation to all the genes)	Common distinguishing feature categories in the compound and genes in the cluster relative to the untreated samples	Distinguishing individual features for the compound relative to untreated samples. Black means a mismatch; i.e. active (= high z-score in magnitude) in the compound, and either inactive (= small z-score in magnitude) or oppositely active in the gene cluster	Number of PubChem assays in which the compound was tested; assays in which the compound was active are itemized
BRD-K59496950-001-06-2 SMR000008290 AC1LDHEO ASN 08222509 MLS000068187 MLS002538128 HMS2502P09 ZINC1337997 ZINC01337997 PubChem CID : 648117		NA (in 1 replicates)	0.65 ± 0.05 Treatment | Score AKT1S1_WT.1 | 0.64 AKT1S1_WT.2 | 0.64 ATF4_WT.2 | 0.65 MAP2K4_WT.2 | 0.73 PIK3R1_WT.1 | 0.67 PRKCA_K368R | 0.58	NA				Total number of assays tested in: 762. Active in the following assays: • Luminescence Cell-Based Primary HTS to Identify Transcriptional Activators of Hypoxia-Inducible Factor Pathway (AID 1910) • qHTS Inhibitors of AmpC Beta-Lactamase (assay with detergent) (AID 485294)
BRD-K42302256-001-05-5 ST066562 AC1LJLFJ MLS000063378 HMS2326M19 ZINC618070 STK126946 BAS 06743063 SMR000075100 PubChem CID : 976041		NA (in 1 replicates)	0.63 ± 0.05 Treatment | Score AKT1S1_WT.1 | 0.61 AKT1S1_WT.2 | 0.57 ATF4_WT.2 | 0.63 MAP2K4_WT.2 | 0.68 PIK3R1_WT.1 | 0.70 PRKCA_K368R | 0.59	NA				Total number of assays tested in: 777. Active in the following assays: • qHTS Assay for Inhibitors of HADH2 (Hydroxyacyl-Coenzyme A Dehydrogenase, Type II) (AID 886) • qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315)

BRD-K79446376-001-01-0 PubChem CID : 54641206		NA (in 1 replicates)	0.63 ± 0.06 Treatment | Score AKT1S1_WT.1 | 0.61 AKT1S1_WT.2 | 0.60 ATF4_WT.2 | 0.54 MAP2K4_WT.2 | 0.65 PIK3R1_WT.1 | 0.66 PRKCA_K368R | 0.70	NA				Total number of assays tested in: 37.
BRD-K18001731-001-01-7 PubChem CID : 54646091		NA (in 1 replicates)	0.61 ± 0.06 Treatment | Score AKT1S1_WT.1 | 0.59 AKT1S1_WT.2 | 0.60 ATF4_WT.2 | 0.62 MAP2K4_WT.2 | 0.70 PIK3R1_WT.1 | 0.62 PRKCA_K368R | 0.52	0.618 ± 0.269 Treatment | Score AKT1S1_WT.1 | 0.683 AKT1S1_WT.2 | 0.084 ATF4_WT.2 | 0.644 MAP2K4_WT.2 | 0.742 PIK3R1_WT.1 | 0.724 PRKCA_K368R | 0.830				Total number of assays tested in: 41.
BRD-K64231918-001-05-9 MS-3063 MLS000327824 AC1NXO4W HMS2444N09 ZINC20445571 SMR000180808 PubChem CID : 5786980		NA (in 1 replicates)	0.61 ± 0.07 Treatment | Score AKT1S1_WT.1 | 0.69 AKT1S1_WT.2 | 0.66 ATF4_WT.2 | 0.52 MAP2K4_WT.2 | 0.54 PIK3R1_WT.1 | 0.62 PRKCA_K368R | 0.60	NA				Total number of assays tested in: 660. Active in the following assays: • Primary cell-based high-throughput screening assay for identification of compounds that allosterically potentiate transient receptor potential cation channel C4 (TRPC4) (AID 2227) • HTS-Luminescent assay for inhibitors of ALR by detection of hydrogen peroxide production Measured in Biochemical System Using Plate Reader - 2036-02_Inhibitor_SinglePoint_HTS (AID 485317) • Absorbance-based biochemical primary high throughput screening assay to identify inhibitors of Methionine sulfoxide reductase A (MsrA) (AID 651718)
BRD-A04599535-003-05-3 SMR000004833 AC1O7EWO MLS000029919 MLS002534451 PubChem CID : 6602651		NA (in 1 replicates)	0.60 ± 0.06 Treatment | Score AKT1S1_WT.1 | 0.61 AKT1S1_WT.2 | 0.58 ATF4_WT.2 | 0.55 MAP2K4_WT.2 | 0.70 PIK3R1_WT.1 | 0.62 PRKCA_K368R | 0.53	NA				Total number of assays tested in: 752. Active in the following assays: • CYP2C19 Assay (AID 778) • qHTS Assay for Agonists of the Thyroid Stimulating Hormone Receptor: Activators of Intracellular cAMP Concentrations in Parental HEK 293 (AID 938) • uHTS of Mcl-1/Bid interaction inhibitors (AID 1021) • Fluorescence-based primary cell-based high throughput screening assay to identify antagonists of the G-protein coupled receptor 7 (GPR7). (AID 1861)
BRD-K90178727-001-01-0 PubChem CID : 54641202		NA (in 1 replicates)	0.59 ± 0.05 Treatment | Score AKT1S1_WT.1 | 0.60 AKT1S1_WT.2 | 0.59 ATF4_WT.2 | 0.52 MAP2K4_WT.2 | 0.66 PIK3R1_WT.1 | 0.59 PRKCA_K368R | 0.58	NA				Total number of assays tested in: 37.

BRD-K42394406-001-05-1
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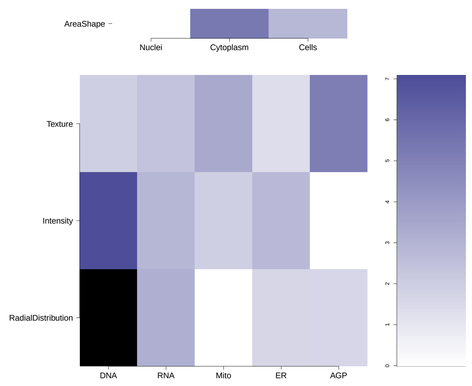
ST50695458
AC1LGMP3
BDBM96244
HMS2356J23
ZINC342230
STK044944
ZINC00342230
PubChem CID : 823976

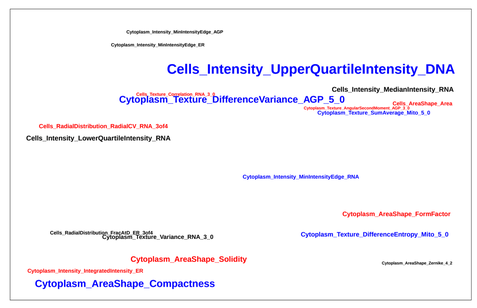
0.76 (in 2 replicates)

0.58 ± 0.06

Treatment	Score
AKT1S1.WT.1	0.57
AKT1S1.WT.2	0.58
ATF4.WT.2	0.59
MAP2K4.WT.2	0.64
PIK3R1.WT.1	0.62
PRKCA.K368R	0.48

NA





Total number of assays tested in: 687. Active in the following assays:

- High Throughput Screen to Identify Compounds that Suppress the Growth of Human Colon Tumor Cells Lacking Oncogenic Beta Catenin Expression (AID 818)
- High Throughput Screen to Identify Compounds that Suppress the Growth of Cells with a Deletion of the PTEN Tumor Suppressor (AID 827)
- Leishmania major promastigote HTS (AID 1063)
- Cytochrome panel assay with activity outcomes (AID 1851)
- Plate Read Microorganism-Based Primary HTS to Identify Modulators of the AI-2 Quorum Sensing System (AID 2094)
- Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)
- qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)
- Absorbance-based primary bacterial cell-based high throughput screening assay to identify inhibitors of AddAB recombination protein complex (AID 435030)
- Counterscreen for inhibitors of AddAB: absorbance-based bacterial cell-based high throughput screening assay to identify inhibitors of bacterial viability (AID 449728)
- uHTS identification of small molecule inhibitors of tim10 yeast via a luminescent assay (AID 463195)
- FRET-based cell-based primary high throughput screening assay to identify antagonists of the orexin 1 receptor (OX1R; HCRTR1) (AID 485270)
- Elucidation of physiology of non-replicating, drug-tolerant Mycobacterium tuberculosis (AID 488890)
- Absorbance-based bacterial cell-based high throughput confirmation assay for inhibitors of AddAB recombination protein complex (AID 488942)
- Counterscreen for AddAB inhibitors: absorbance-based high throughput cell-based assay to identify inhibitors of RecBCD (AID 488955)
- Counterscreen for AddAB inhibitors: absorbance-based bacterial cell-based high throughput confirmation assay for inhibitors of bacterial viability (AID 488956)
- A Cell Based Secondary Assay to Explore Cytotoxicity in THP-1 Cells of Compounds that Modulate Non-Replicating, Drug-tolerant Mycobacterium tuberculosis (AID 489025)
- A Cell Based Secondary Assay to Explore Compounds that Modulate Non-Replicating, Drug-tolerant Compounds in Replicating H37Rv TB of Mycobacterium tuberculosis (AID 492952)
- A Cell Based Secondary Assay to Explore Cytotoxicity in Vero E6 Cells of Compounds that Modulate Non-Replicating, Drug-tolerant Mycobacterium tuberculosis (AID 492998)
- Counterscreen for antagonists of the orexin 1 receptor (OX1R; HCRTR1): Homogenous time resolved fluorescence (HTRF)-based cell-based assay to identify antagonists of the parental CHO-K1 cell line (AID 493232)
- Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834)
- uHTS identification of cystic fibrosis induced NFkb Inhibitors in a fluoresence assay (AID 588850)
- qHTS for Inhibitors of TGF-b: Cytotox Counterscreen (AID 588856)
- A quantitative high throughput screen for small molecules that induce DNA re-replication in SW480 colon adenocarcinoma cells. (AID 624297)
- Absorbance-based primary bacterial cell-based high throughput screening assay to identify inhibitors of RecBCD (with phage) (AID 651602)
- MLPCN PGC1a Modulators Measured in Cell-Based System Using Plate Reader - 2139-01_Activator_SinglePoint_HTS_Activity (AID 651723)
- Counterscreen for RECBCD inhibitors: absorbance-based high throughput cell-based assay to identify inhibitors of AddAB recombination protein complex (AID 651984)
- Luminescence-based cell-based primary high throughput screening assay to identify activators of the function of SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2, BRM) (AID 652017)
- Luminescence-based cell-based primary high throughput confirmation assay to identify activators of the function of SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2, BRM) (AID 652260)
- qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)
- qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979)

BRD-K08668362-001-01-1
PubChem CID : 54646090

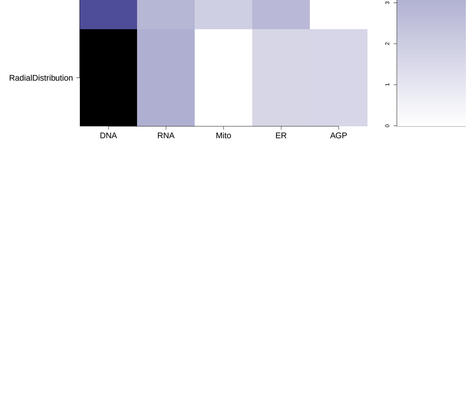
NA (in 1 replicates)

0.57 ± 0.12

Treatment	Score
AKT1S1.WT.1	0.63
AKT1S1.WT.2	0.56
ATF4.WT.2	0.41
MAP2K4.WT.2	0.65
PIK3R1.WT.1	0.43
PRKCA.K368R	0.71

0.753 ± 0.083

Treatment	Score
AKT1S1.WT.1	0.683
AKT1S1.WT.2	0.755
ATF4.WT.2	0.864
MAP2K4.WT.2	0.655
PIK3R1.WT.1	0.724
PRKCA.K368R	0.837



Total number of assays tested in: 41.

BRD-K69503483-001-01-0
PubChem CID : 54618106

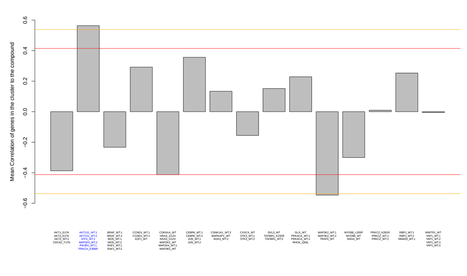
0.86 (in 4 replicates)

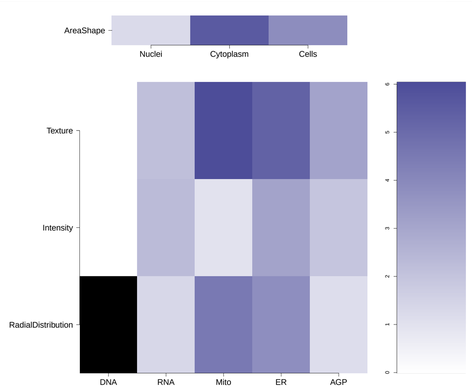
0.56 ± 0.08

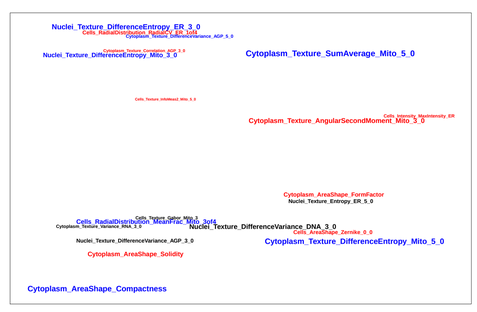
Treatment	Score
AKT1S1.WT.1	0.58
AKT1S1.WT.2	0.60
ATF4.WT.2	0.55
MAP2K4.WT.2	0.63
PIK3R1.WT.1	0.41
PRKCA.K368R	0.60

0.328 ± 0.254

Treatment	Score
AKT1S1.WT.1	0.289
AKT1S1.WT.2	0.207
ATF4.WT.2	0.205
MAP2K4.WT.2	0.195
PIK3R1.WT.1	0.840
PRKCA.K368R	0.229



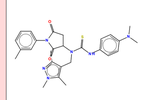




Total number of assays tested in: 36. Active in the following assays:

- Inhibition of the MLL-AF4-AF9 Interaction in Pediatric Leukemia Measured in Biochemical System Using Plate Reader - 2160-01_Inhibitor_SinglePoint_HTS_Activity (AID 651704)

BRD-A57762296-001-05-6
AC1NMVVZ
MLS000698218
HMS2519I13
STL400806
SMR000227890
ST50709480
PubChem CID : 5016927



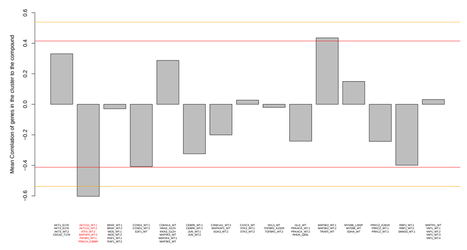
0.68 (in 4 replicates)

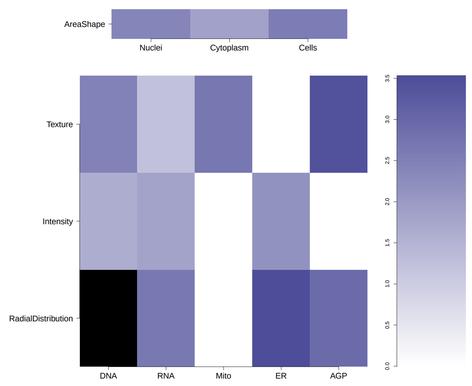
-0.60 ± 0.04

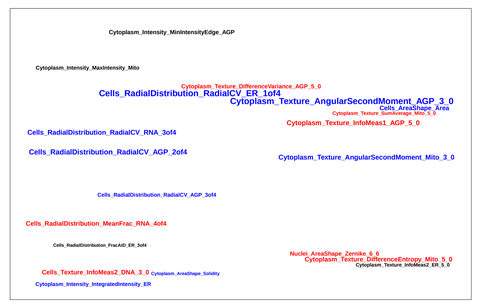
Treatment	Score
AKT1S1.WT.1	-0.59
AKT1S1.WT.2	-0.60
ATF4.WT.2	-0.63
MAP2K4.WT.2	-0.67
PIK3R1.WT.1	-0.58
PRKCA.K368R	-0.57

0.357 ± 0.247

Treatment	Score
AKT1S1.WT.1	0.840
AKT1S1.WT.2	0.155
ATF4.WT.2	0.356
MAP2K4.WT.2	0.214
PIK3R1.WT.1	0.276
PRKCA.K368R	0.302



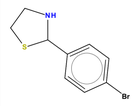




Total number of assays tested in: 641. Active in the following assays:

- uHTS luminescence assay for the identification of compounds that inhibit NOD1 (AID 1578)
- Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of the plasma platelet activating factor acetylhydrolase (pPAFAH) (AID 463082)
- HTS Assay for Allosteric Antagonists of the Human D2 Dopamine Receptor: Primary Screen for Antagonists (AID 485344)

BRD-A41484464-001-06-0
BRN 1211793
67086-81-1
F1912-0001
AC1MCJDX
MLS000678441
CTK5I7353
HMS2721O10
HE088600
KB-92026
SMR000323916
KB-323361
LS-151122
PubChem CID : 2771064

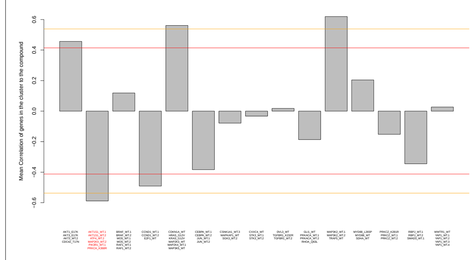


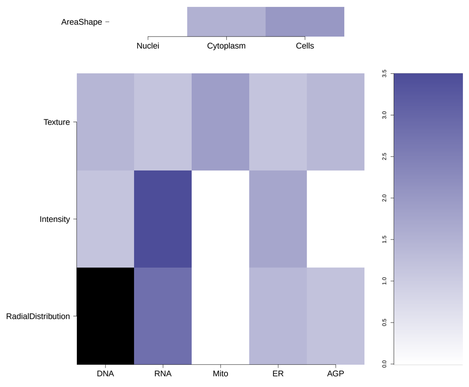
NA (in 1 replicates)

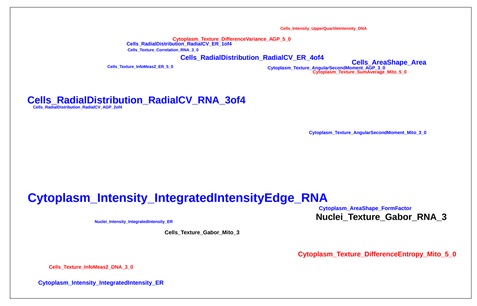
-0.59 ± 0.06

Treatment	Score
AKT1S1_WT.1	-0.63
AKT1S1_WT.2	-0.67
ATF4_WT.2	-0.51
MAP2K4_WT.2	-0.56
PIK3R1_WT.1	-0.62
PRKCA_K368R	-0.54

NA



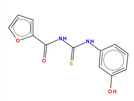




Total number of assays tested in: 617. Active in the following assays:

- uHTS identification of TNAP inhibitors in the absence of phosphate acceptor performed in luminescent assay (AID 1012)
- Aqueous Solubility from MLSMR Stock Solutions (AID 1996)
- Primary biochemical fluorescence polarization-based high throughput screening assay to identify inhibitors of protein arginine methyltransferase 1 (PRMT1) (AID 652257)

BRD-K75977772-001-05-9
MLS000756489
NSC205913
AC1N1LYV
ZINC5580712
ZINC05580712
NSC-205913
SMR000528759
PubChem CID : 4007404

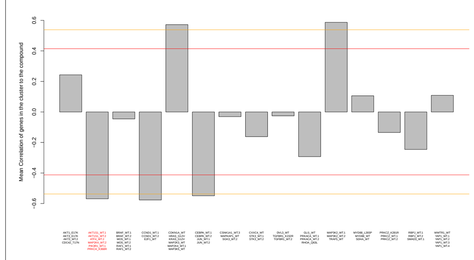


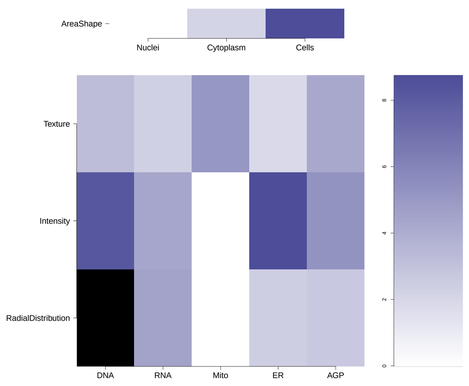
NA (in 1 replicates)

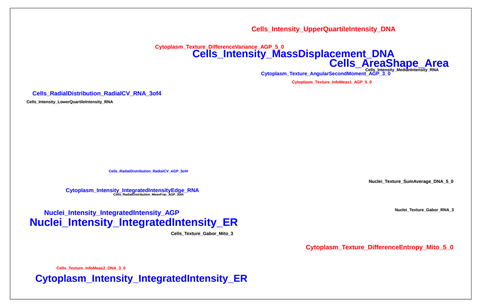
-0.57 ± 0.07

Treatment	Score
AKT1S1_WT.1	-0.61
AKT1S1_WT.2	-0.61
ATF4_WT.2	-0.48
MAP2K4_WT.2	-0.49
PIK3R1_WT.1	-0.68
PRKCA_K368R	-0.55

NA



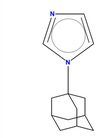




Total number of assays tested in: 565. Active in the following assays:

- MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814)
- Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)
- A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315)
- qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxiredoxins (AID 485364)
- qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)
- qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)
- qHTS of Nrf2 Activators (AID 624171)
- Luminescence-based cell-based primary high throughput screening assay to identify activators of the function of SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2, BRM) (AID 652017)
- Luminescence-based cell-based primary high throughput screening assay to identify activators of the DAF-12 from the parasite S. stercoralis (ssDAF-12) (AID 652126)
- Counterscreen for activators of the function of SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2, BRM): Luminescence-based cell-based high throughput screening assay to identify non-selective compounds using the VP16 reporter assay (AID 686939)

BRD-K28756469-001-05-3
NSC283155
AC1Q1GVS
AC1L88IG
MLS000037904
HMS2375K08
ZINC3957330
STL326994
NSC-283155
H117
SMR000039669
26543P
PubChem CID : 323381

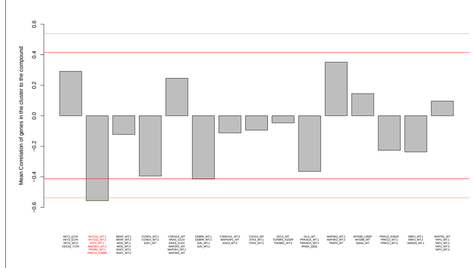


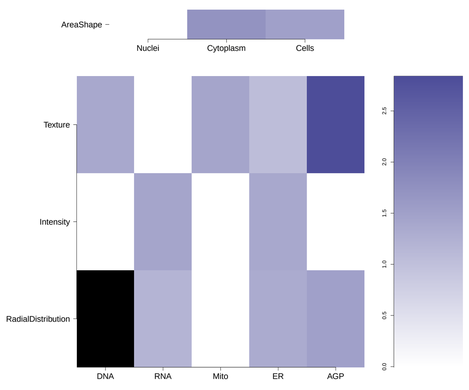
0.58 (in 3 replicates)

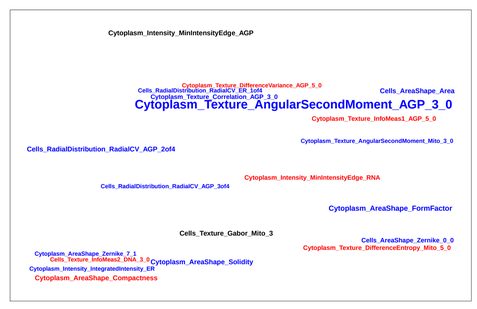
-0.56 ± 0.03

Treatment	Score
AKT1S1_WT.1	-0.54
AKT1S1_WT.2	-0.56
ATF4_WT.2	-0.53
MAP2K4_WT.2	-0.61
PIK3R1_WT.1	-0.56
PRKCA_K368R	-0.54

NA



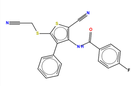




Total number of assays tested in: 814. Active in the following assays:

- CYP2C9 Assay (AID 777)
- CYP2C19 Assay (AID 778)
- Assay for HTS of Gi/Go-linked GPCRs using mGluR8: Primary Screening (AID 488969)
- Primary cell-based screen for identification of compounds that inhibit the Choline Transporter (CHT) (AID 488975)
- Confirmatory screen for compounds that inhibit the Choline Transporter (CHT) (AID 493221)
- Dose responses of compounds that inhibit the Choline Transporter (CHT) - 5 point CRC (AID 504840)
- Dose responses of compounds that inhibit the Choline Transporter (CHT) - 10 point CRC (AID 588401)
- Activators of the GIRK family of Potassium Channels (GIRK1/2_Confirmatory) (AID 623911)
- Confirmed inhibitors of the Choline Transporter (CHT) (AID 1053196)

BRD-K46976183-001-05-0
10P-378S
AC1MCBYB
SMR000180621
MLS000327655
HMS2404B20
ZINC4014200
ZINC04014200
PubChem CID : 2765899

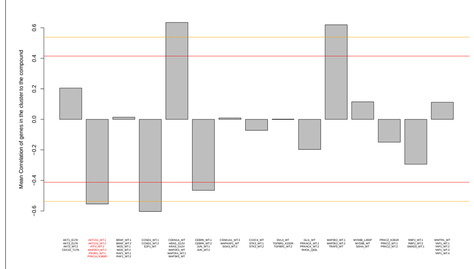


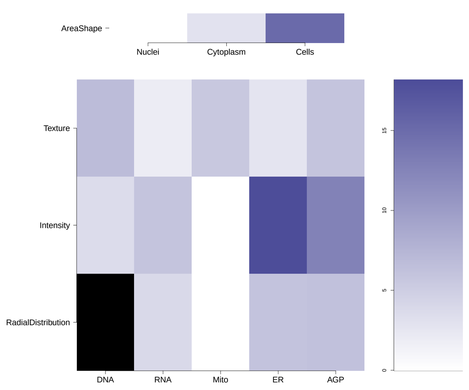
0.90 (in 3 replicates)

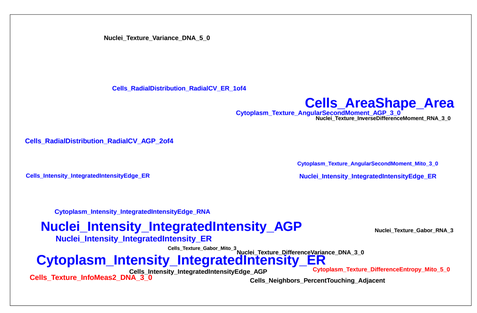
-0.55 ± 0.06

Treatment	Score
AKT1S1_WT.1	-0.57
AKT1S1_WT.2	-0.60
ATF4_WT.2	-0.50
MAP2K4_WT.2	-0.50
PIK3R1_WT.1	-0.64
PRKCA_K368R	-0.52

NA



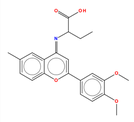




Total number of assays tested in: 637. Active in the following assays:

- qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490)
- Fluorescence Cell-Free Homogeneous Primary HTS to Identify Inhibitors of the RanGTP-Importin-beta complex (AID 2216)
- qHTS of D3 Dopamine Receptor Antagonist: qHTS (AID 652054)

BRD-A14556598-001-06-7
MLS000402296
SMR000243030
AC1MWISV
AC1Q2RLA
BDBM63320
CTK6C7395
NE61401
EN300-05982
T0518-2801
956370-25-5
PubChem CID : 3749969

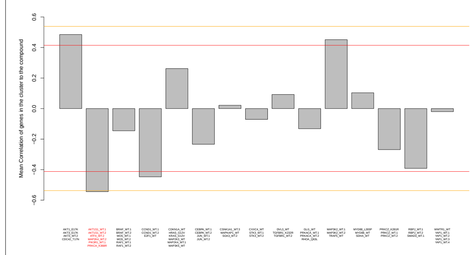


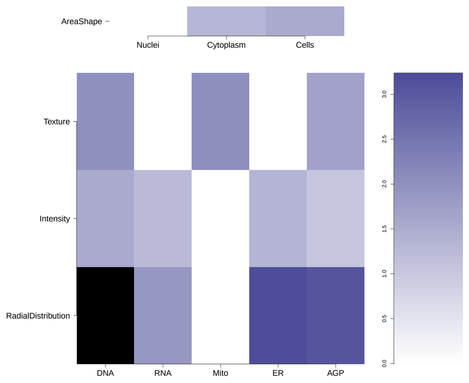
NA (in 1 replicates)

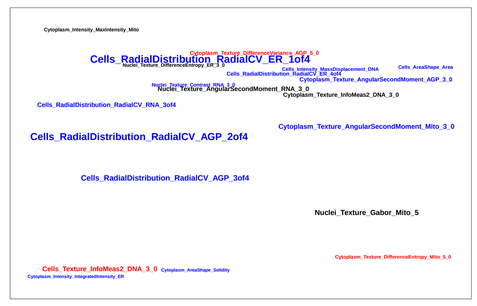
-0.54 ± 0.04

Treatment	Score
AKT1S1_WT.1	-0.51
AKT1S1_WT.2	-0.58
ATF4_WT.2	-0.48
MAP2K4_WT.2	-0.55
PIK3R1_WT.1	-0.59
PRKCA_K368R	-0.55

NA







Total number of assays tested in: 651. Active in the following assays:

- Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)
- Confirmatory screen for compounds that activate the Choline Transporter (CHT) (AID 504833)
- Counter screen assay of the parental HEK293 cells for compounds that activate the Choline Transporter (CHT) (AID 623908)
- DENV2 CPE-Based HTS Measured in Cell-Based and Microorganism Combination System Using Plate Reader - 2149-01_Other_SinglePoint_HTS_Activity (AID 651640)
- Fluorescence Intensity-based biochemical primary high throughput screening assay to identify activators of kallikrein-7 (K7) zymogen (AID 652039)
- Fluorescence Intensity-based biochemical primary high throughput confirmation assay to identify activators of kallikrein-7 (K7) zymogen (AID 686949)
- Counterscreen for activators of kallikrein-7 (K7) zymogen: Fluorescence intensity-based biochemical high throughput counterscreen assay for activators that optically interfere with measurement of EDANS-DABCYL fluorescence (AID 686952)

BRD-K56431031-001-05-7
MLS000588411
AC1LTTVN
HMS2403A04
ZINC1470316
STK810003
ZINC01470316
SMR000212182
ST50042501
T0511-7175
PubChem CID : 1540074

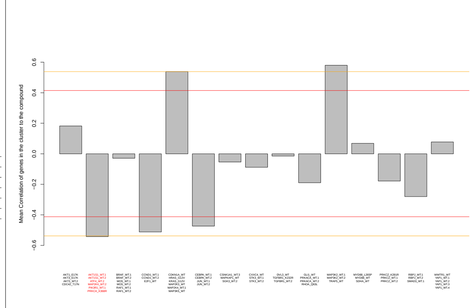
0.85 (in 4 replicates)

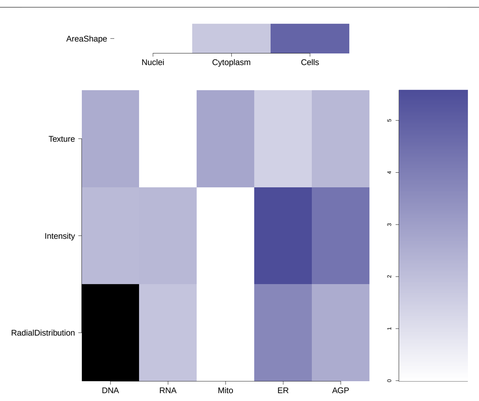
-0.54 ± 0.07

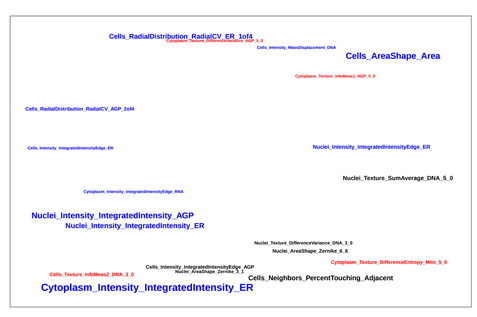
Treatment	Score
AKT1S1_WT.1	-0.54
AKT1S1_WT.2	-0.56
ATF4_WT.2	-0.46
MAP2K4_WT.2	-0.50
PIK3R1_WT.1	-0.66
PRKCA_K368R	-0.54

0.478 ± 0.284

Treatment	Score
AKT1S1_WT.1	0.317
AKT1S1_WT.2	0.245
ATF4_WT.2	0.356
MAP2K4_WT.2	0.771
PIK3R1_WT.1	0.276
PRKCA_K368R	0.904



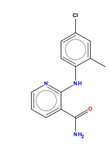




Total number of assays tested in: 662. Active in the following assays:

- Multiplexed high-throughput screen for small molecule regulators of Bcl-2 family protein interactions, specifically Bim-Mcl-1 (AID 1009)
- qHTS for Inhibitors of Tau Fibril Formation, Fluorescence Polarization (AID 1468)
- HTS Assay for Peg3 Promoter Inhibitors (AID 588405)
- uHTS identification of inhibitors of NadD in a Colorimetric assay (AID 602399)
- uHTS identification of small molecule activators of alpha dystroglycan glycosylation (AID 624168)
- A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 624296)
- uHTS identification of inhibitors of cullin neddylation in a TR-FRET assay (AID 651699)

BRD-K39858575-001-05-5
ZINC00481288
AC1LICN6
MLS000701602
HMS2588K19
ZINC481288
SMR000226867
PubChem CID : 901918



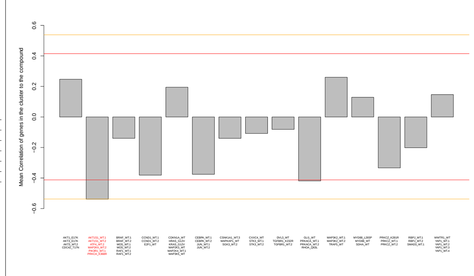
0.86 (in 4 replicates)

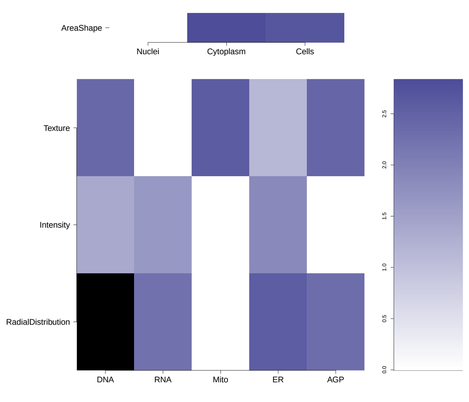
-0.54 ± 0.06

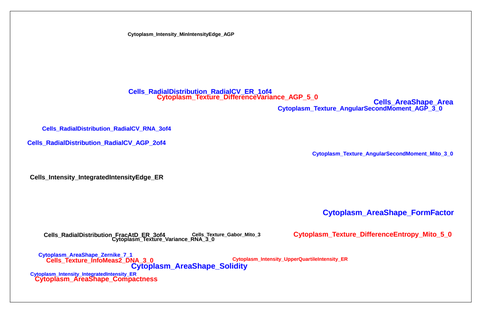
Treatment	Score
AKT1S1_WT.1	-0.53
AKT1S1_WT.2	-0.54
ATF4_WT.2	-0.52
MAP2K4_WT.2	-0.65
PIK3R1_WT.1	-0.52
PRKCA_K368R	-0.48

0.431 ± 0.347

Treatment	Score
AKT1S1_WT.1	0.827
AKT1S1_WT.2	0.908
ATF4_WT.2	0.073
MAP2K4_WT.2	0.288
PIK3R1_WT.1	0.276
PRKCA_K368R	0.215







Total number of assays tested in: 645. Active in the following assays:

- Primary cell-based high throughput screening assay to measure STAT1 activation (AID 932)
- qHTS Assay for Enhancers of SMN2 Splice Variant Expression (AID 1458)
- MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814)
- qHTS Assay for Modulators of miRNAs and/or Inhibitors of miR-21 (AID 2289)
- Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)
- A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315)
- Primary cell-based high-throughput screening assay for identification of compounds that inhibit regulator of G-protein signaling 4 (RGS4) (AID 463165)
- Validation assay for identification of compounds that inhibit the regulator of G-protein signaling 4 (RGS4) (AID 492999)
- Luminescence-based primary cell-based high throughput screening assay to identify inhibitors of the orphan nuclear receptor subfamily 0, group B, member 1 (DAX1; NR0B1) (AID 504766)
- qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)
- qHTS Assay to Identify Small Molecule Activators of BRCA1 Expression (AID 624202)

BRD-K74196031-001-05-4
ST50002594
BAS 00435184
AC1LL0T8
MLS000559810
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ZINC827087
STK342806
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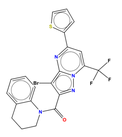
PubChem CID : 1102016

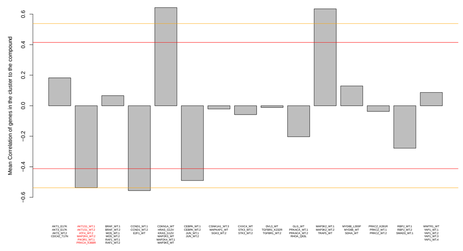


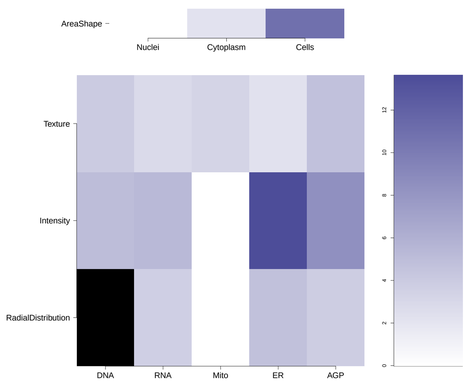
0.87 (in 3 replicates)

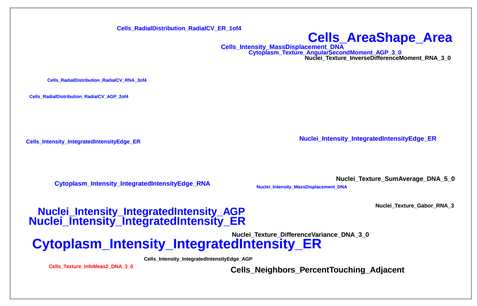
-0.54 ± 0.06

Treatment	Score
AKT1S1.WT.1	-0.57
AKT1S1.WT.2	-0.58
ATF4.WT.2	-0.46
MAP2K4.WT.2	-0.48
PIK3R1.WT.1	-0.61
PRKCA.K368R	-0.52

NA







Total number of assays tested in: 629. Active in the following assays:

- Leishmania major promastigote HTS (AID 1063)
- High Throughput Imaging Assay for Hepatic Lipid Droplet Formation (AID 1656)
- MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - inhibitors (AID 1813)
- Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)
- Single concentration confirmation of HCS identification of small molecules that inhibit hepatic lipid droplet formation (AID 463183)
- High-throughput multiplex microsphere screening for inhibitors of toxin protease, specifically Botulinum neurotoxin light chain A protease, MLPCN compound set (AID 588499)
- uHTS identification of small molecule inhibitors of the thioesterase domain of fatty acid synthase via a fluorescence intensity assay (AID 602261)
- qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)
- qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979)

BRD-K09721123-001-05-8
AC1MMVLK
SMR000028253
MLS000045856
HMS2454F08
ZINC4034427
PubChem CID : 3245118

0.62 (in 4 replicates)

-0.54 ± 0.07

Treatment	Score
AKT1S1.WT.1	-0.58
AKT1S1.WT.2	-0.58
ATF4.WT.2	-0.44
MAP2K4.WT.2	-0.60
PIK3R1.WT.1	-0.44
PRKCA.K368R	-0.58

0.255 ± 0.077

Treatment	Score
AKT1S1.WT.1	0.317
AKT1S1.WT.2	0.245
ATF4.WT.2	0.356
MAP2K4.WT.2	0.157
PIK3R1.WT.1	0.276
PRKCA.K368R	0.180

Total number of assays tested in: 782. Active in the following assays:

- qHTS Assay for Spectroscopic Profiling in 4-MU Spectral Region (AID 589)
- qHTS Assay for Spectroscopic Profiling in A350 Spectral Region (AID 590)
- Leishmania major promastigote HTS (AID 1063)
- Primary biochemical high throughput screening assay to identify inhibitors of VIM-2 metallo-beta-lactamase (AID 1527)
- Counterscreen of compound fluorescence effects on High-throughput multiplex microsphere screening for inhibitors of toxin protease (AID 624483)
- qHTS of D3 Dopamine Receptor Antagonist: qHTS (AID 652054)