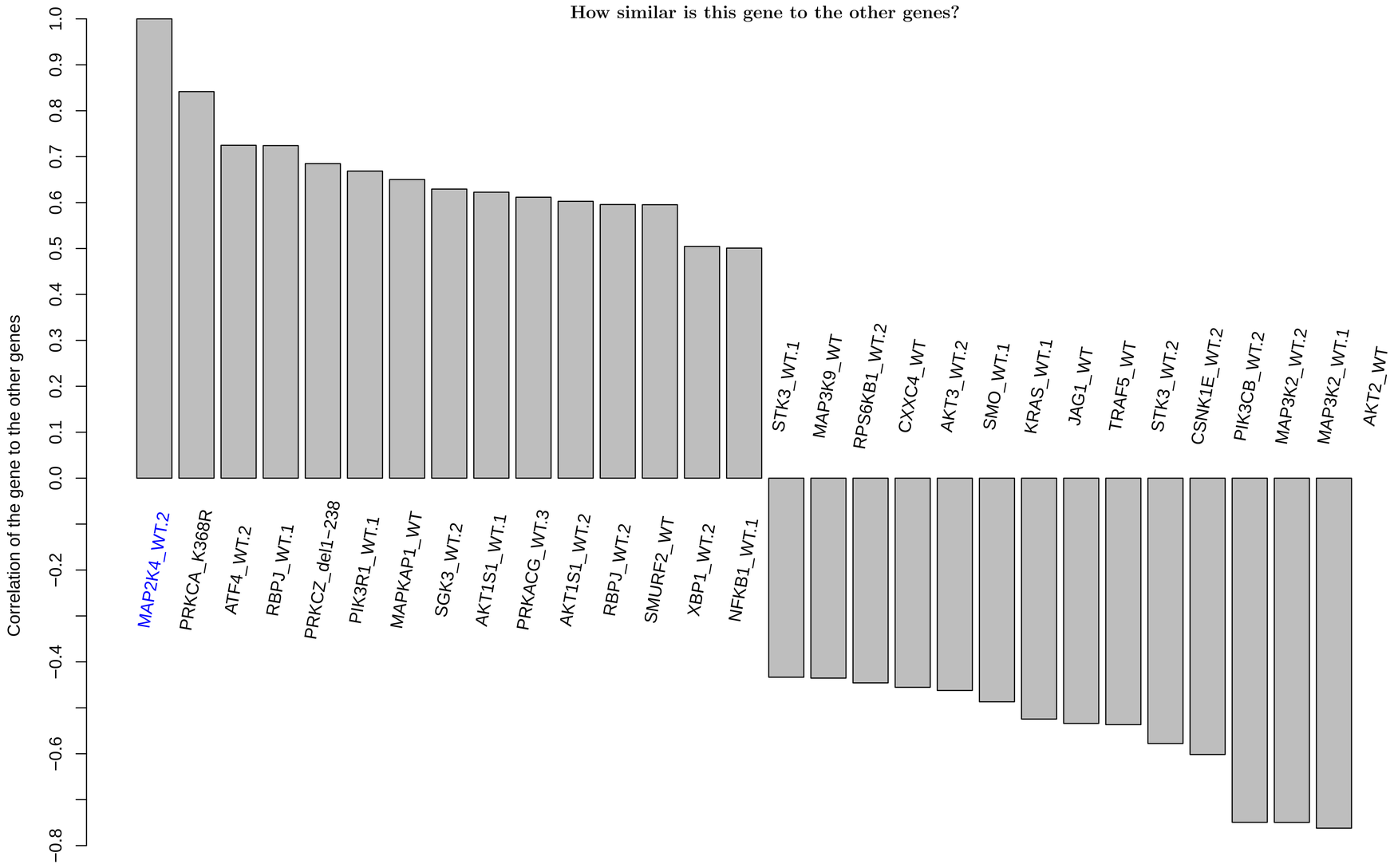
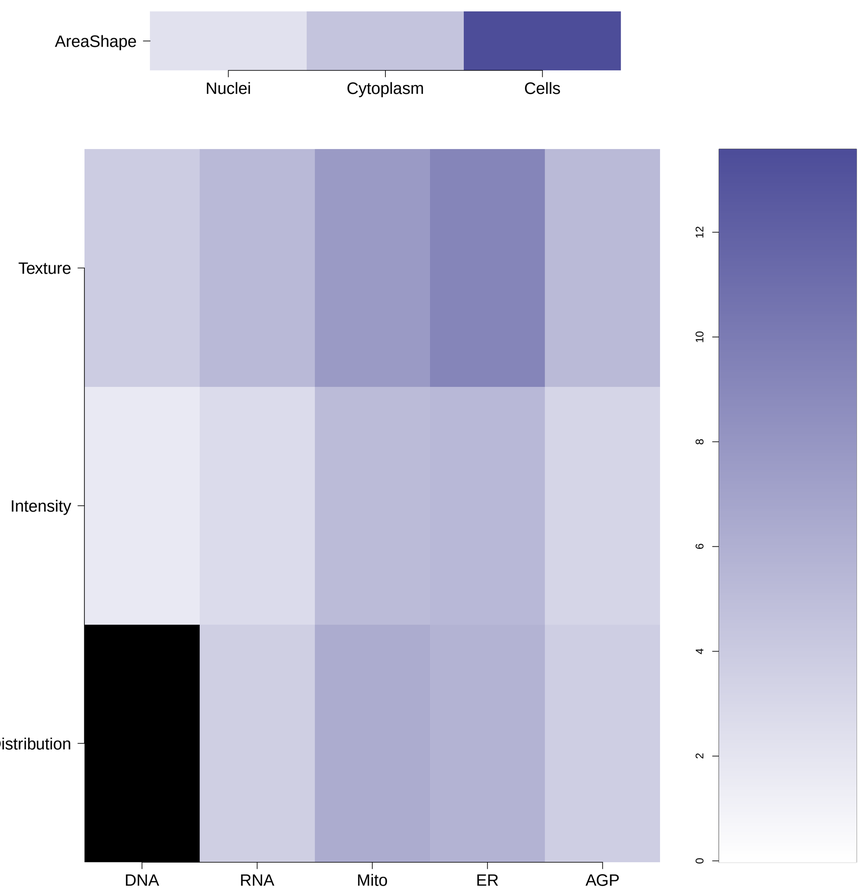
MAP2K4_WT.2 - in Canonical MAPK

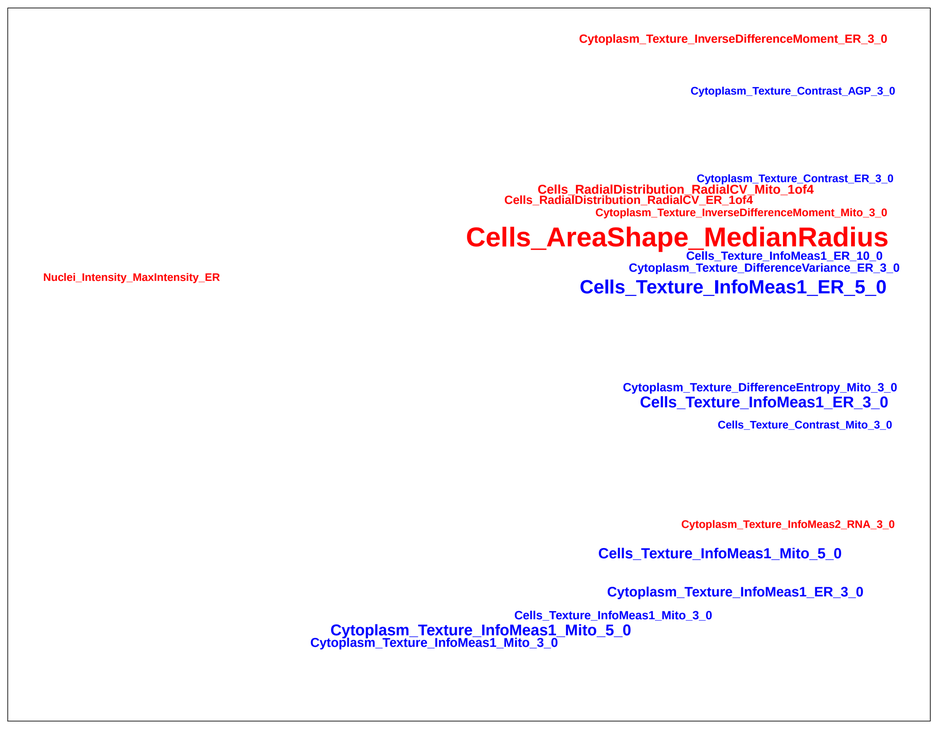
How similar is this gene to the other genes?

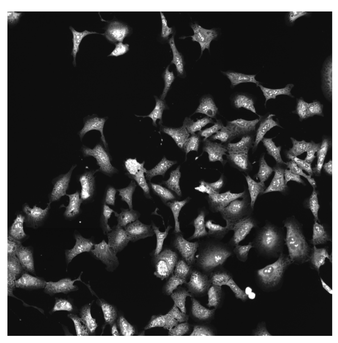
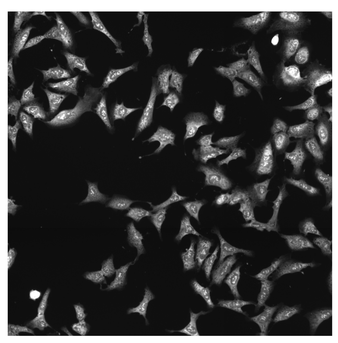
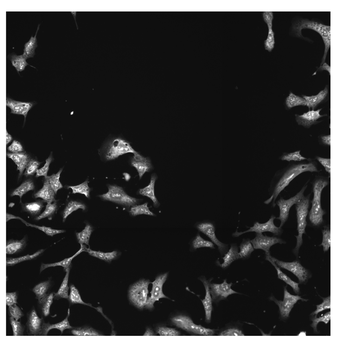
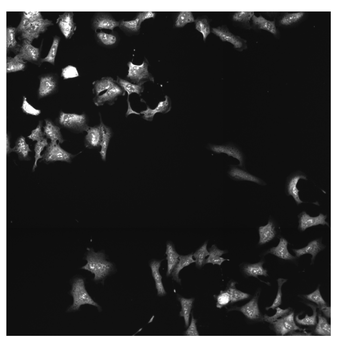
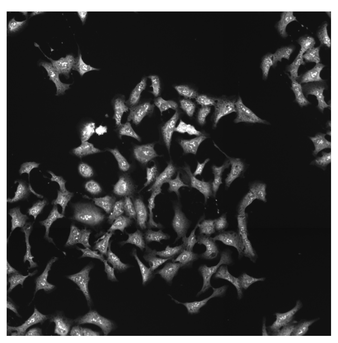
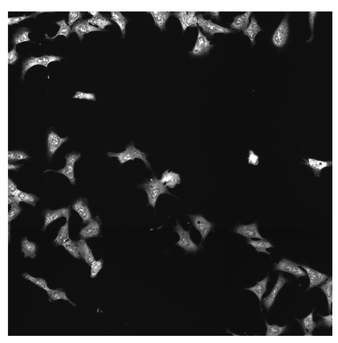
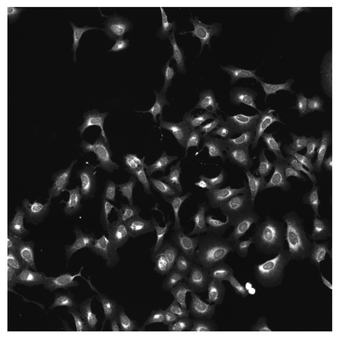
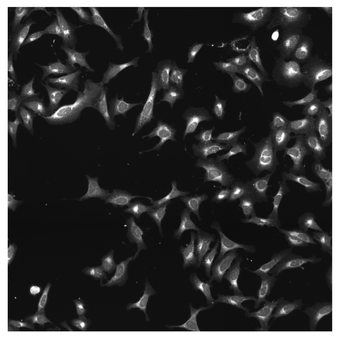
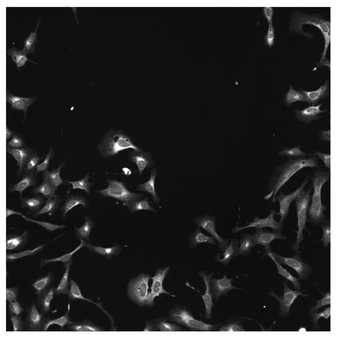
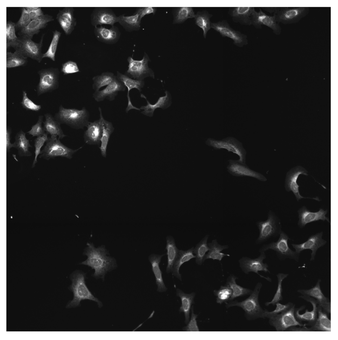
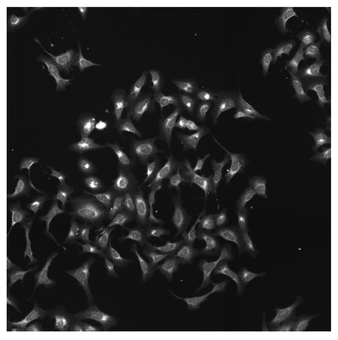
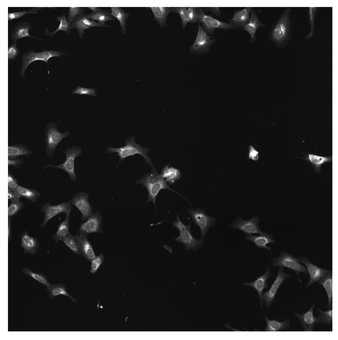


What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

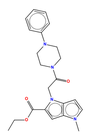
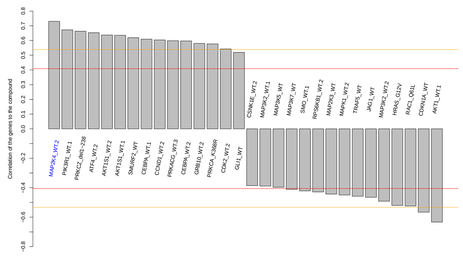
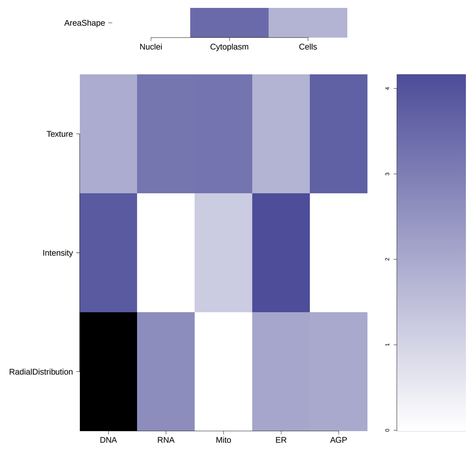
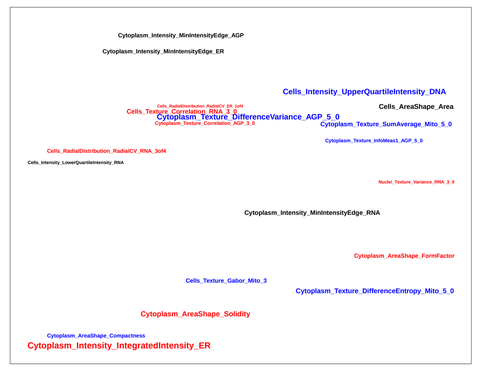
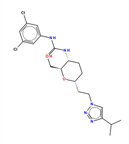
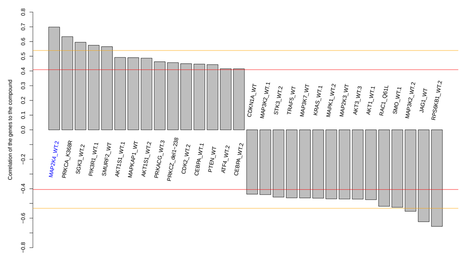
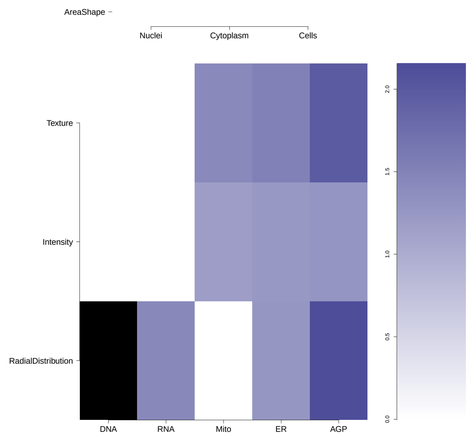
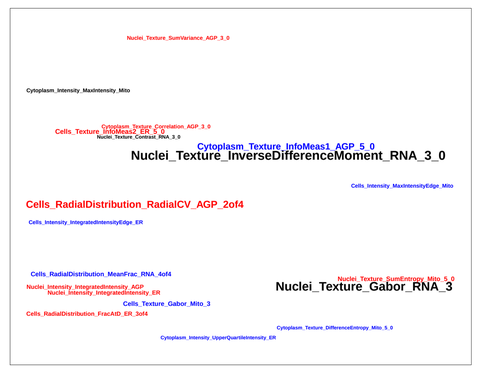
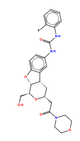
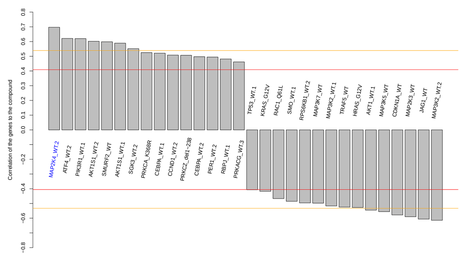
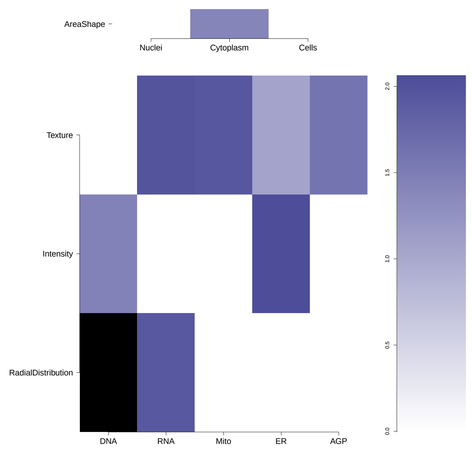
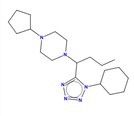
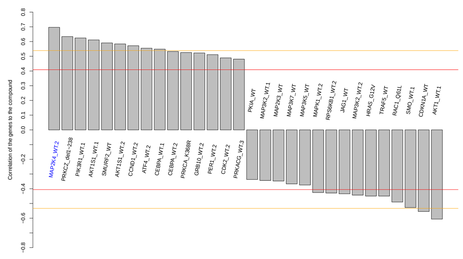
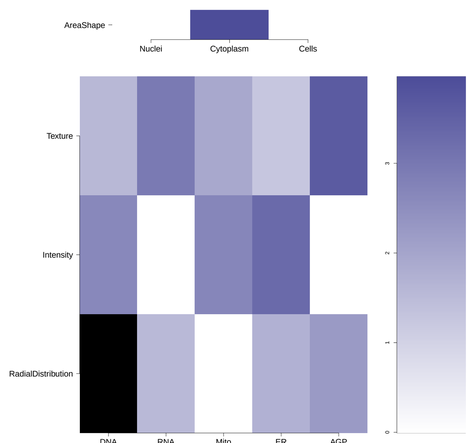
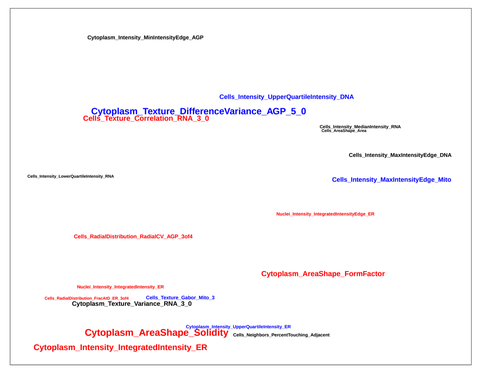


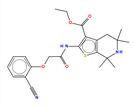
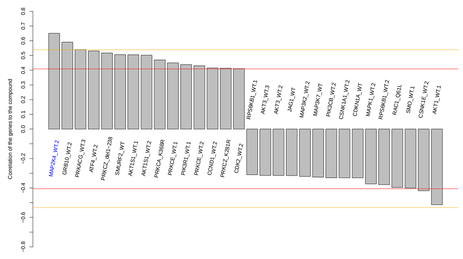
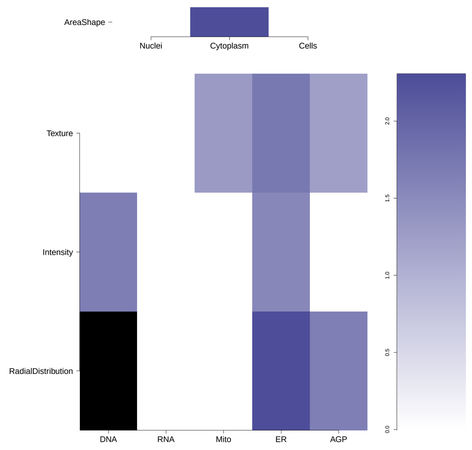
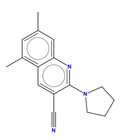
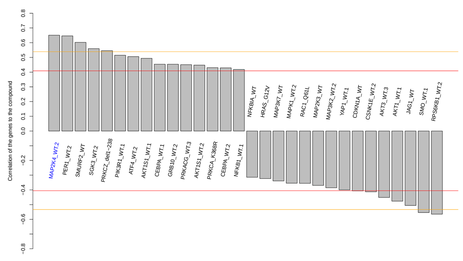
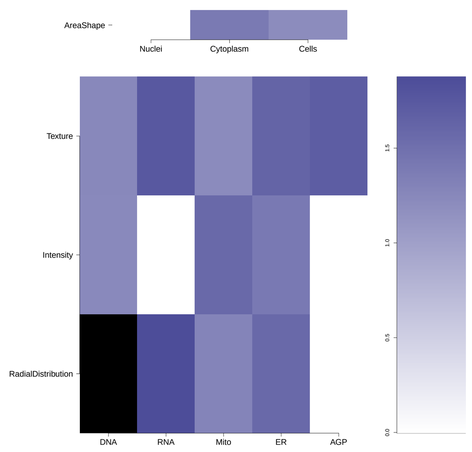
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.



	Empty	MAP2K4_WT.2 (41744)	MAP2K4_WT.2 (41755)	MAP2K4_WT.2 (41756)	MAP2K4_WT.2 (41757)	MAP2K4_WT.2 (41754)
RNA						
ER						

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 0.51)	Correlation between compound the gene	Compound rank when scored against the gene using L1000 profiling	How similar is the compound signature to the genes 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 the gene 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	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)	0.73	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-K62269054-001-01-4 PubChem CID : 54641204		NA (in 1 replicates)	0.70	NA				Total number of assays tested in: 37.
BRD-K18001731-001-01-7 PubChem CID : 54646091		NA (in 1 replicates)	0.70	0.742				Total number of assays tested in: 41.
BRD-A04599535-003-05-3 SMR000004833 AC1O7EWO MLS000029919 MLS002534451 PubChem CID : 6602651		NA (in 1 replicates)	0.70	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-K78246835-001-01-0 PubChem CID : 54641306		NA (in 1 replicates)	0.67	NA				Total number of assays tested in: 38. Active in the following assays: • MLPCN SirT-5 Measured in Biochemical System Using Imaging - 7044-01_Inhibitor_SinglePoint_HTS_Activity_Set5 (AID 652115)
BRD-K90178727-001-01-0 PubChem CID : 54641202		NA (in 1 replicates)	0.66	NA				Total number of assays tested in: 37.

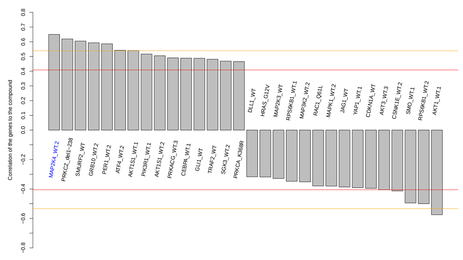
BRD-K45519575-001-05-5 MLS001099412 SMR000715359 BDBM79112 HMS2979B10 ZINC15940594 T6086791 PubChem CID : 24687564		0.80 (in 2 replicates)	0.65	NA				Total number of assays tested in: 507. Active in the following assays: • Multiplex HTS Assay for Inhibitors of MEK Kinase PB1 Domains, specifically MEK5 binding to MEK Kinase 2 Wildtype (AID 1531) • Luminescence Cell-Based Primary HTS to Identify Inhibitors of Heat Shock Factor 1 (HSF1). (AID 2098) • uHTS identification of UBC13 Polyubiquitin Inhibitors via a TR-FRET Assay (AID 485273) • uHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346) • Single concentration confirmation of uHTS for the identification of UBC13 Polyubiquitin Inhibitors via a TR-FRET Assay (AID 488859) • Dose Response confirmation of uHTS for the identification of UBC13 Polyubiquitin Inhibitors via a TR-FRET Assay (AID 493155) • Dose Response confirmation of uHTS for the identification of UBC13 Polyubiquitin Inhibitors via a TR-FRET Assay reconfirm (AID 493182) • SAR analysis of small molecule UBC13 Polyubiquitin Inhibitors via a TR-FRET Assay (AID 504687) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 48 hour incubation (AID 504832) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834) • uHTS identification of modulators of interaction between CendR and NRP-1 using Fluorescence Polarization assay (AID 602438) • A quantitative high throughput screen for small molecules that induce DNA re-replication in SW480 colon adenocarcinoma cells. (AID 624297) • Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human trace amine associated receptor 1 (TAAR1) (AID 624466) • Flow Cytometric HTS Screening for Inhibitors of Lytic Granule Exocytosis with MLPCN Compound Library (AID 651702) • Counterscreen for antagonists of the human trace amine associated receptor 1 (hTAAR1): Fluorescence-based cell-based high throughput screening assay to identify nonselective antagonists (AID 651780) • Counterscreen for antagonists of the human trace amine associated receptor 1 (hTAAR1): Fluorescence-based cell-based high throughput screening assay to identify nonselective Ga16 agonists (AID 651953) • 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) • TRFRET-based cell-based primary high throughput screening assay to identify inhibitors of cell surface Prion Protein (PRPC) (AID 720596) • TRFRET-based cell-based high throughput confirmation assay to identify inhibitors of cell surface Prion Protein (PRPC) (AID 743200) • Counterscreen for inhibitors of cell surface Prion Protein (PrPc): Luminescence-based cell-based high throughput assay to identify compounds that are cytotoxic to LD9 cells (AID 743201)
BRD-K84605058-001-04-3 MLS000033109 AC1LDJ3I HMS2344C20 ZINC19801439 ASN 05814881 SMR000005593 PubChem CID : 648892		NA (in 1 replicates)	0.65	NA				Total number of assays tested in: 757. 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) • HTS of Estrogen Receptor- alpha Coactivator Binding inhibitors (AID 629) • Cell signaling CRE-BLA (Fsk stim) (AID 662) • Profiling the NIH Molecular Libraries Small Molecule Repository: Autofluorescence at 339/460 nm (AID 709) • Non-Nucleoside Inhibitor of Measles Virus RNA-Dependent RNA Polymerase Complex Activity HTS Single Point (MLSMR Library) (AID 841) • qHTS Assay for Inhibitors of HSD17B4, hydroxysteroid (17-beta) dehydrogenase 4 (AID 893) • Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Primary Screen (AID 1456) • qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834) • Fluorescence-based biochemical primary high throughput screening assay to identify inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 588726) • uHTS identification of SKN-1 Inhibitors in a fluoresence assay (AID 624304) • qHTS Assay for Activators of ClpP (AID 651965)

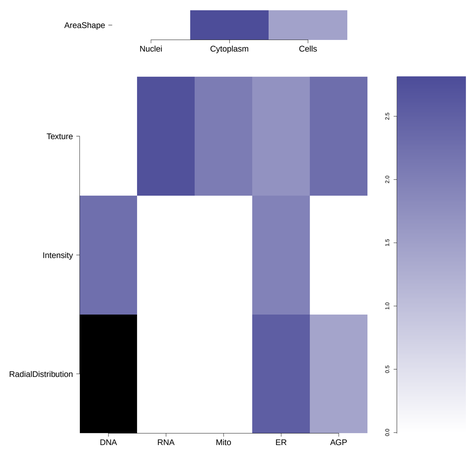
BRD-K68917053-001-08-8
SMR000218360
MLS000592134
AC1NW2PM
BDBM87278
ZINC2353511
ZINC02353511
PubChem CID : 5613214

0.93 (in 2 replicates)

0.65

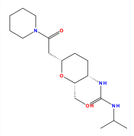
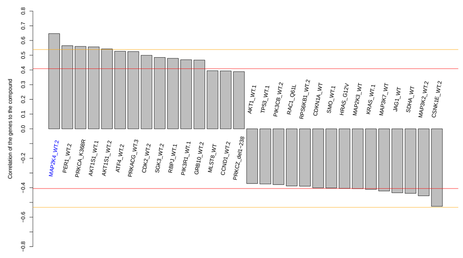
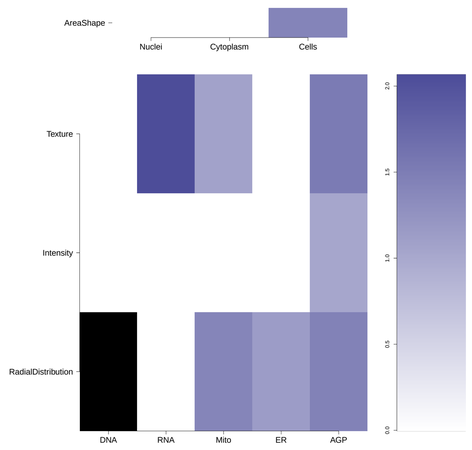
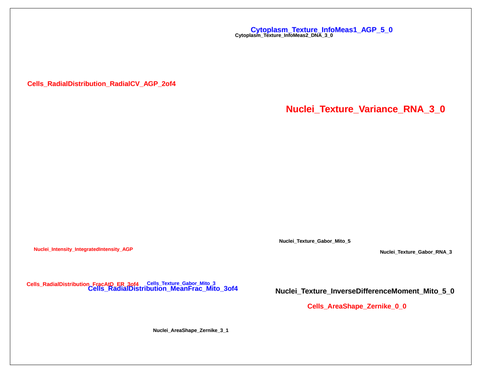
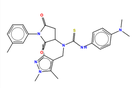
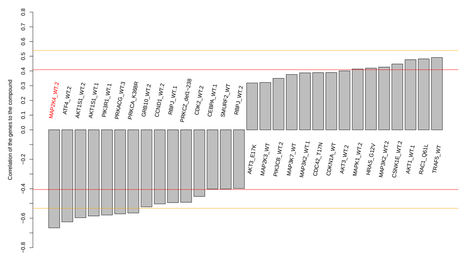
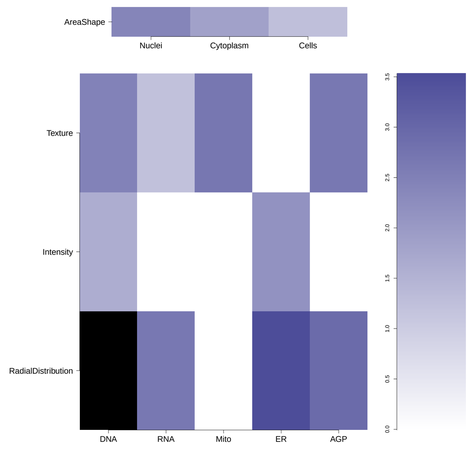
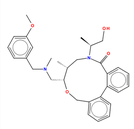
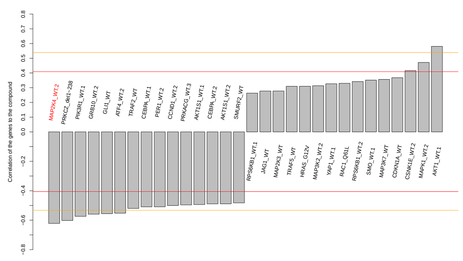
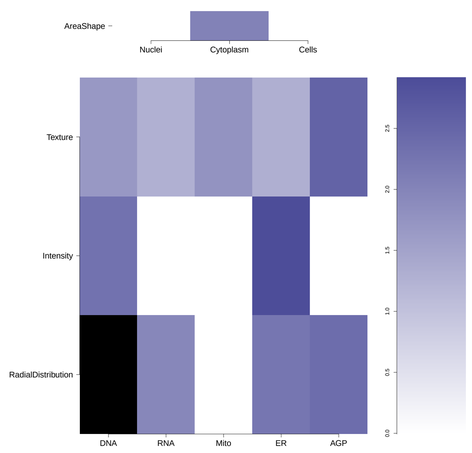
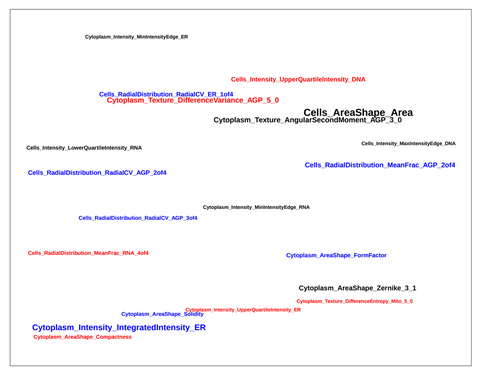
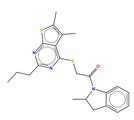
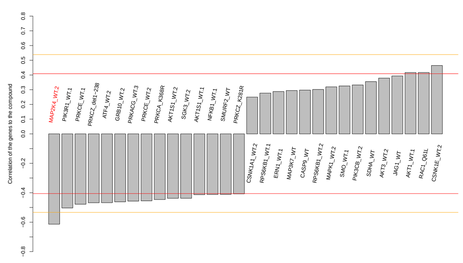
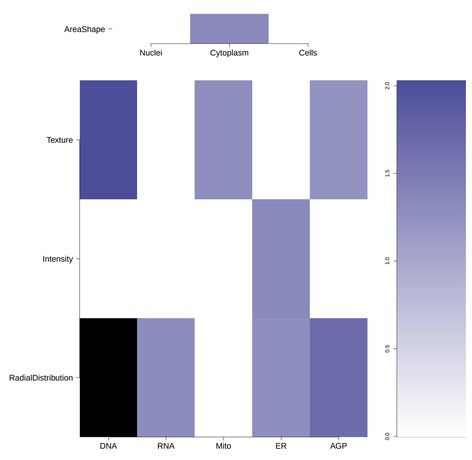
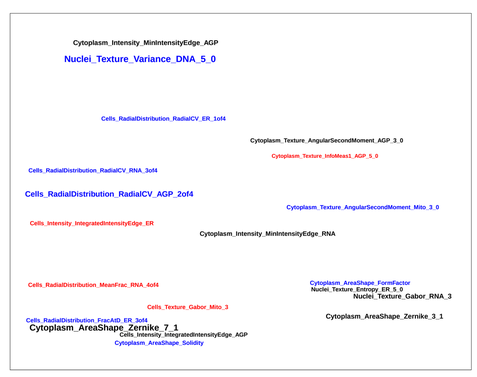
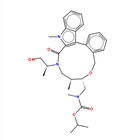
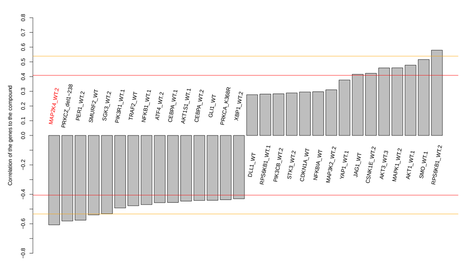
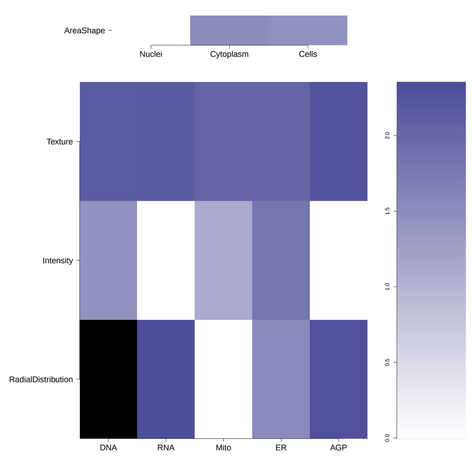
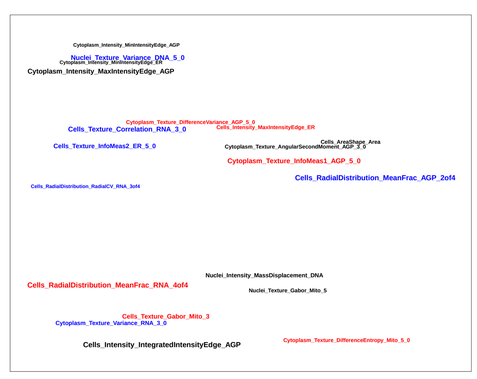
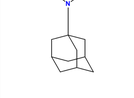
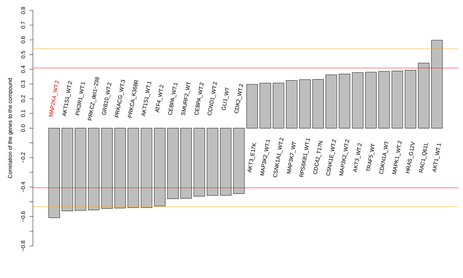
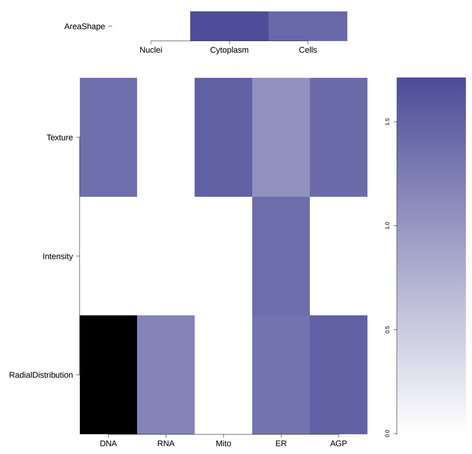
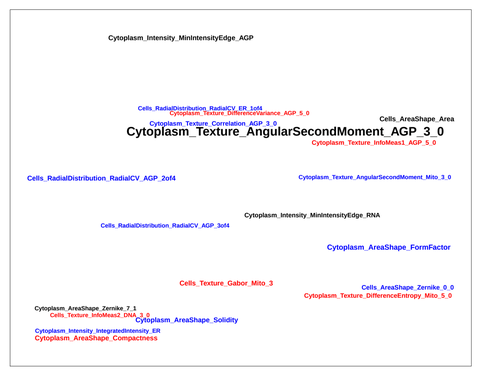
NA

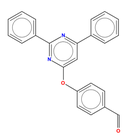
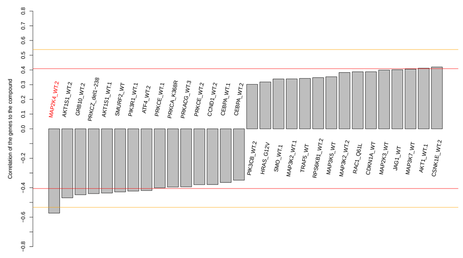
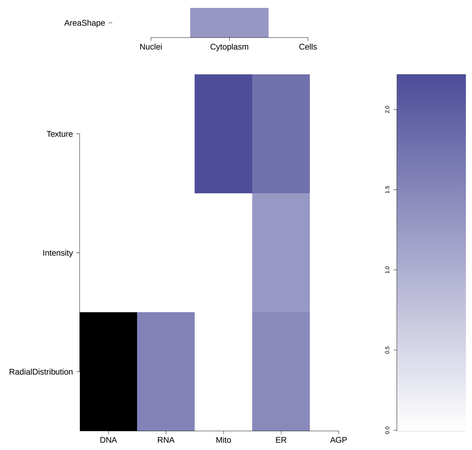
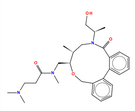
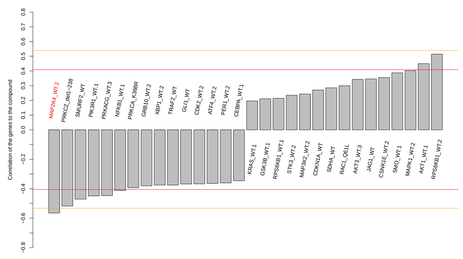
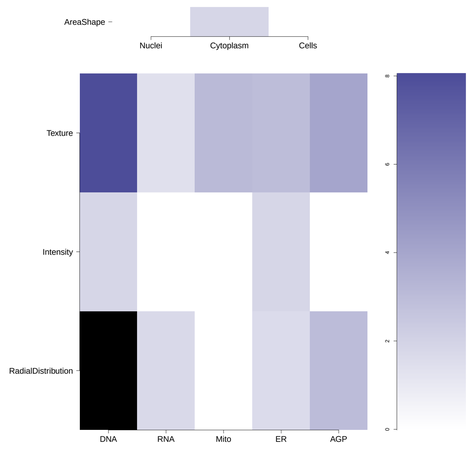
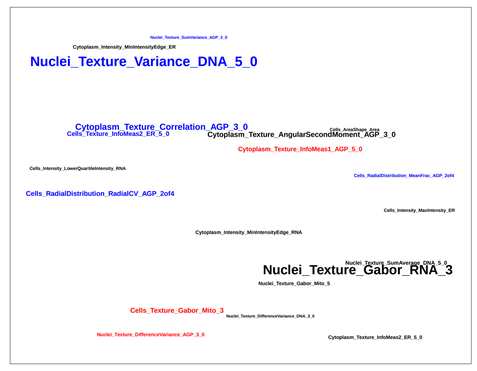
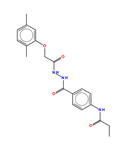
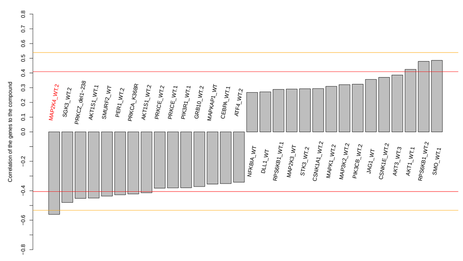
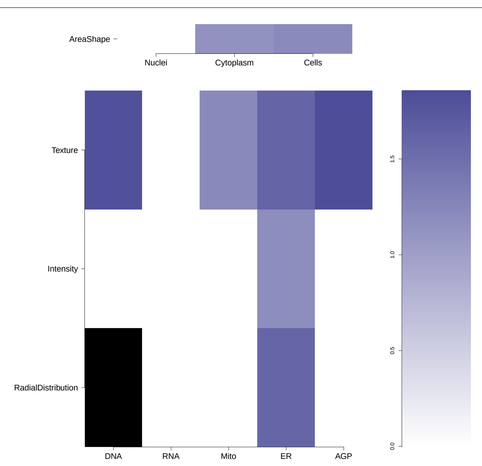
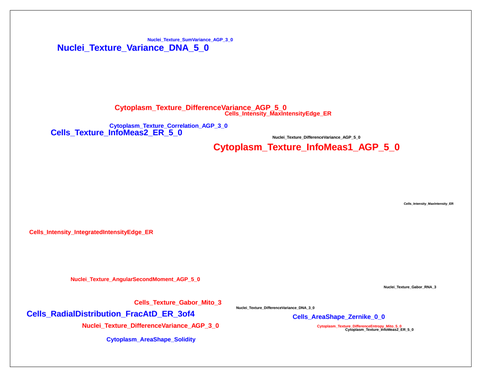
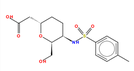
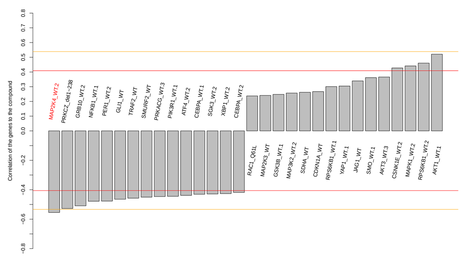
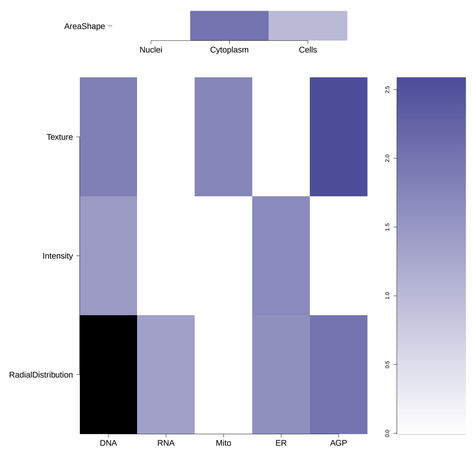




Total number of assays tested in: 689. Active in the following assays:

- 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)
- High Throughput Screen to Identify Compounds that Suppress the Growth of Human Colon Tumor Cells Lacking Oncogenic Beta Catenin Expression - Dose Response (AID 1045)
- High Throughput Screen to Identify Compounds that Suppress the Growth of Cells with a Deletion of the PTEN Tumor Suppressor - Dose Response (AID 1047)
- Leishmania major promastigote HTS (AID 1063)
- qHTS for Inhibitors of Tau Fibril Formation, Thioflavin T Binding (AID 1460)
- MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - inhibitors (AID 1813)
- Fluorescence polarization-based counterscreen for RBBP9 inhibitors: primary biochemical high throughput screening assay to identify inhibitors of the oxidoreductase glutathione S-transferase omega 1(GSTO1). (AID 1974)
- Fluorescence Cell-Based Primary HTS of C.albicans growth in the presence of Fluconazole and compound (AID 1979)
- Fluorescence Cell-Based Secondary Assay for toxicity in mammalian fibroblasts (AID 2327)
- High Content Assay for Compounds that inhibit the Assembly of the Perinucleolar Compartment (AID 2417)
- Fluorescence Cell-Based Retest of C. albicans Growth in the Presence of Fluconazole (AID 2467)
- VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546)
- qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)
- uHTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 6 (SENP6) (AID 2599)
- High Content Assay for Compounds that inhibit the Assembly of the Perinucleolar Compartment: Confirmation of PNC Inhibition (AID 2730)
- HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732)
- High Content Assay for Compounds that inhibit the Assembly of the Perinucleolar Compartment: PC3M Cytotoxicity (AID 2733)
- Luminescence Cell-Based Primary HTS to Identify Inhibitors of Beta Cell Apoptosis. (AID 435005)
- Luminescence Cell-Based Dose Retest to Confirm Inhibitors of Beta Cell Apoptosis (AID 449756)
- uHTS identification of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463190)
- uHTS identification of small molecule inhibitors of tim10 yeast via a luminescent assay (AID 463195)
- uHTS identification of small molecule inhibitors of tim23-1 yeast via a luminescent assay (AID 463212)
- Single concentration confirmation of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463213)
- Single concentration confirmation of small molecule inhibitors of tim10 yeast via a luminescent assay (AID 463215)
- Single concentration confirmation of small molecule inhibitors of tim23-1 yeast via a luminescent assay (AID 463218)
- ATP-based Luminescence in the Absence of Cytokines Measured in Cell-Based System Using Plate Reader - 2061-06_Inhibitor_Dose_CherryPick (AID 463229)
- uHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346)
- Elucidation of physiology of non-replicating, drug-tolerant Mycobacterium tuberculosis (AID 488890)
- MITF Measured in Cell-Based System Using Plate Reader - 2084-01_Inhibitor_SinglePoint_HTS_Activity (AID 488899)
- A Cell Based Secondary Assay to Explore Cytotoxicity in THP-1 Cells of Compounds that Modulate Non-Replicating, Drug-tolerant Mycobacterium tuberculosis (AID 489025)
- Single concentration confirmation of uHTS for Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 489028)
- 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)
- MITF Measured in Cell-Based System Using Plate Reader - 2084-01_Inhibitor_DoseNoFile_CherryPick_Activity_Set3 (AID 493073)
- MITF Measured in Cell-Based System Using Plate Reader - 2084-01_Inhibitor_DoseNoFile_CherryPick_Activity_Set4 (AID 493102)
- MITF Measured in Cell-Based System Using Plate Reader - 2084-01_Inhibitor_DoseNoFile_CherryPick_Activity_Set2 (AID 493177)
- MITF Orthogonal Assay: MALME3 CTG Assay Measured in Cell-Based System Using Plate Reader - 2084-04_Inhibitor_Dose_CherryPick_Activity (AID 493191)
- MITF Orthogonal Assay: SK-MEL-5 CTG Assay Measured in Cell-Based System Using Plate Reader - 2084-02_Inhibitor_Dose_CherryPick_Activity_Set3 (AID 493240)
- Nrf2 qHTS screen for inhibitors (AID 504444)
- Single concentration confirmation of inhibitors of Mdm2/MdmX interaction using a Full-Length Luciferase Counterscreen assay (AID 504607)
- Nrf2 qHTS screen for inhibitors: counterscreen for cytotoxicity (AID 504648)
- Single concentration confirmation of inhibitors of Mdm2/MdmX interaction using a Brca1/Bard1 BiLC Counterscreen assay. (AID 504668)
- Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of the HTRA serine peptidase 1 (HTRA1) (AID 504803)
- Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 48 hour incubation (AID 504832)
- Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834)
- Fluorescence polarization-based biochemical high throughput confirmation assay for inhibitors of the HTRA serine peptidase 1 (HTRA1) (AID 540248)
- qHTS for Inhibitors of binding or entry into cells for Lassa Virus (AID 540256)
- qHTS for inhibitors of binding or entry into cells for Marburg Virus (AID 540276)
- qHTS of small molecules that selectively kill Giardia lamblia: Hit Validation in HepG2 cytotox (AID 588382)
- qHTS of small molecules that selectively kill Giardia lamblia: Hit Validation. (AID 588397)
- HTS Assay for Peg3 Promoter Inhibitors (AID 588405)
- qHTS for Inhibitors of TGF-b (AID 588855)
- qHTS for Inhibitors of TGF-b: Cytotox Counterscreen (AID 588856)
- Luminescence-based cell-based high throughput dose response assay for inhibitors of the Steroid Receptor Coactivator 3 (SRC3; NCOA3) (AID 602166)
- Counterscreen for inhibitors of the Steroid Receptor Coactivator 3 (SRC3; NCOA3): Luminescence-based cell-based high throughput dose response assay to identify inhibitors of the Herpes Virus Virion Protein 16 (VP16) (AID 602167)
- Counterscreen for inhibitors of the Steroid Receptor Coactivator 3 (SRC3; NCOA3): Luminescence-based cell-based high throughput dose response assay to identify inhibitors of the Steroid Receptor Coactivator 1 (SRC1; NCOA1) (AID 602168)
- A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 624296)
- A quantitative high throughput screen for small molecules that induce DNA re-replication in

BRD-K42358458-001-01-2 PubChem CID : 54641226		NA (in 1 replicates)	0.65	NA				Total number of assays tested in: 37.
BRD-A57762296-001-05-6 AC1NMVVZ MLS000698218 HMS2519I13 STL400806 SMR000227890 ST50709480 PubChem CID : 5016927		0.68 (in 4 replicates)	-0.67	0.214				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 (AID 463082) • HTS Assay for Allosteric Antagonists of the Human D2 Dopamine Receptor: Primary Screen for Antagonists (AID 485344)
BRD-K13587575-001-01-9 PubChem CID : 54637864		0.62 (in 3 replicates)	-0.62	0.926				Total number of assays tested in: 43.
BRD-A64862239-001-05-5 AC1MLMUM MLS000549745 HMS2501E09 ASN 05260372 SMR000173039 PubChem CID : 3197538		NA (in 1 replicates)	-0.61	NA				Total number of assays tested in: 661. Active in the following assays: • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • qHTS Assay for Antagonists of the Neuropeptide S Receptor: cAMP Signal Transduction (AID 1461) • uHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346) • uHTS fluorescent assay for identification of inhibitors of ATG4B (AID 504462) • qHTS for inhibitors of binding or entry into cells for Marburg Virus (AID 540276) • Single concentration counterscreen of uHTS hits for ATG4B inhibitors in a Phospholipase A2 assay (AID 588402)
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)	-0.61	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-K75207324-001-01-3 PubChem CID : 56835370		0.75 (in 3 replicates)	-0.61	0.952				Total number of assays tested in: 33.
BRD-K09721123-001-05-8 AC1MMVLK SMR000028253 MLS000045856 HMS2454F08 ZINC4034427 PubChem CID : 3245118		0.62 (in 4 replicates)	-0.60	0.157				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)

BRD-K71060914-001-06-5 ZINC00797401 AC1LLC51 MLS000566440 HMS2529O11 ZINC797401 BAS 00317886 SMR000174411 PubChem CID : 1082031		0.54 (in 4 replicates)	-0.57	NA				Total number of assays tested in: 642. Active in the following assays: • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • Leishmania major promastigote HTS (AID 1063) • Luminescence Cell-Based Primary HTS to Identify Inhibitors of Cancer Stem Cells (AID 2717) • Luminescence Cell-Based Dose Retest to Confirm Inhibitors of Cancer Stem Cells (AID 449748) • Dose Response HTS Screen to Identify Cytotoxic Compounds of HMLE.sh.eGFP (AID 463074) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834)
BRD-K35886478-001-01-7 PubChem CID : 54637911		0.70 (in 3 replicates)	-0.57	0.915				Total number of assays tested in: 38.
BRD-K51490301-001-05-1 ZINC00674924 AC1LK80Z MLS000700791 ARONIS002536 HMS2558G19 ZINC674924 STK075084 SMR000228764 ST040052 PubChem CID : 1013803		0.57 (in 4 replicates)	-0.56	0.278				Total number of assays tested in: 602. Active in the following assays: • HTS to identify inhibitors of zVAD Induced Cell Death in L929 Cells. (AID 1377) • Fluorescence-based biochemical high throughput primary assay to identify inhibitors of phospholipase C isozymes (PLC-beta3). (AID 720704)
BRD-K27858225-001-01-2 PubChem CID : 54640931		0.62 (in 4 replicates)	-0.55	0.895				Total number of assays tested in: 37.