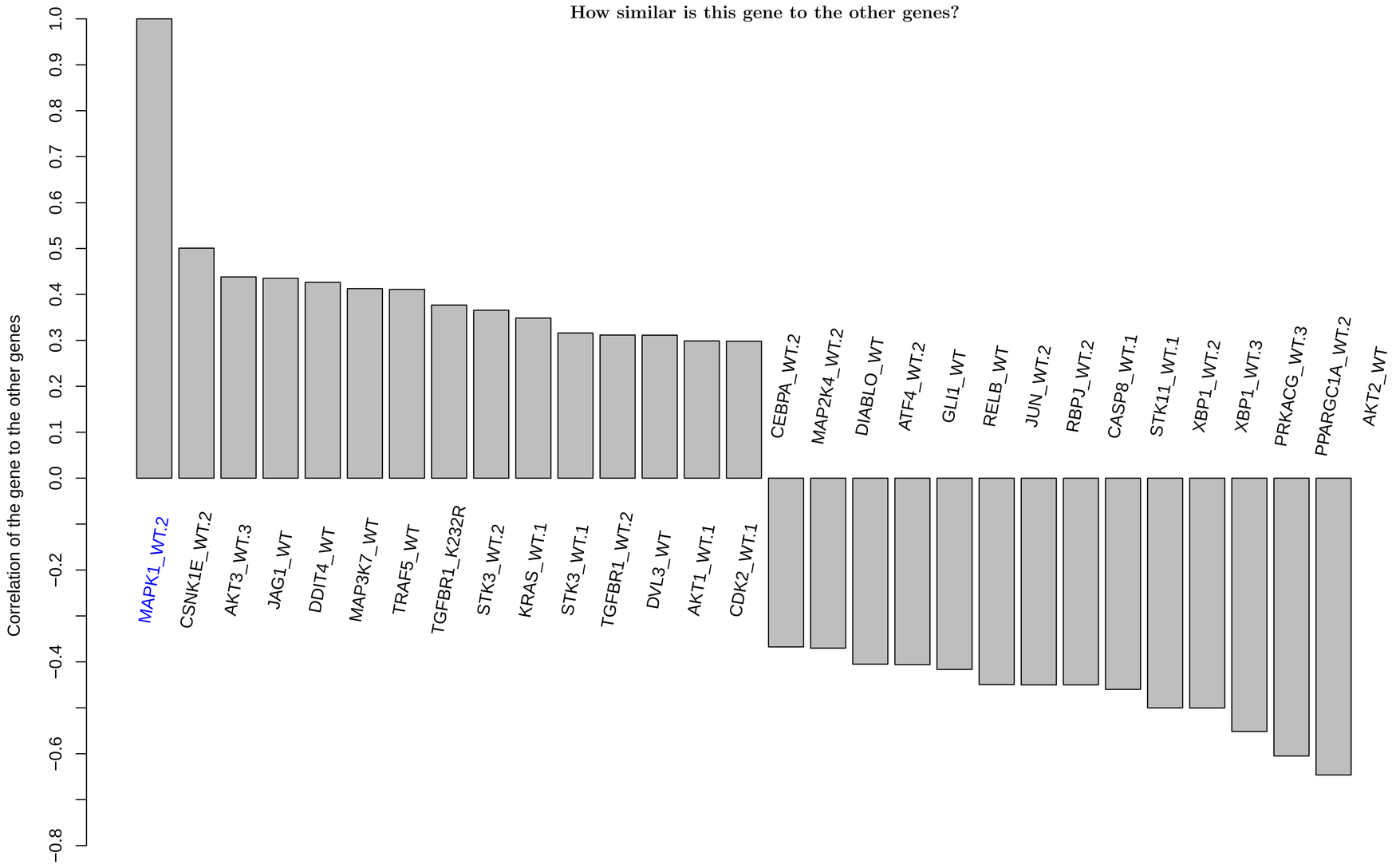
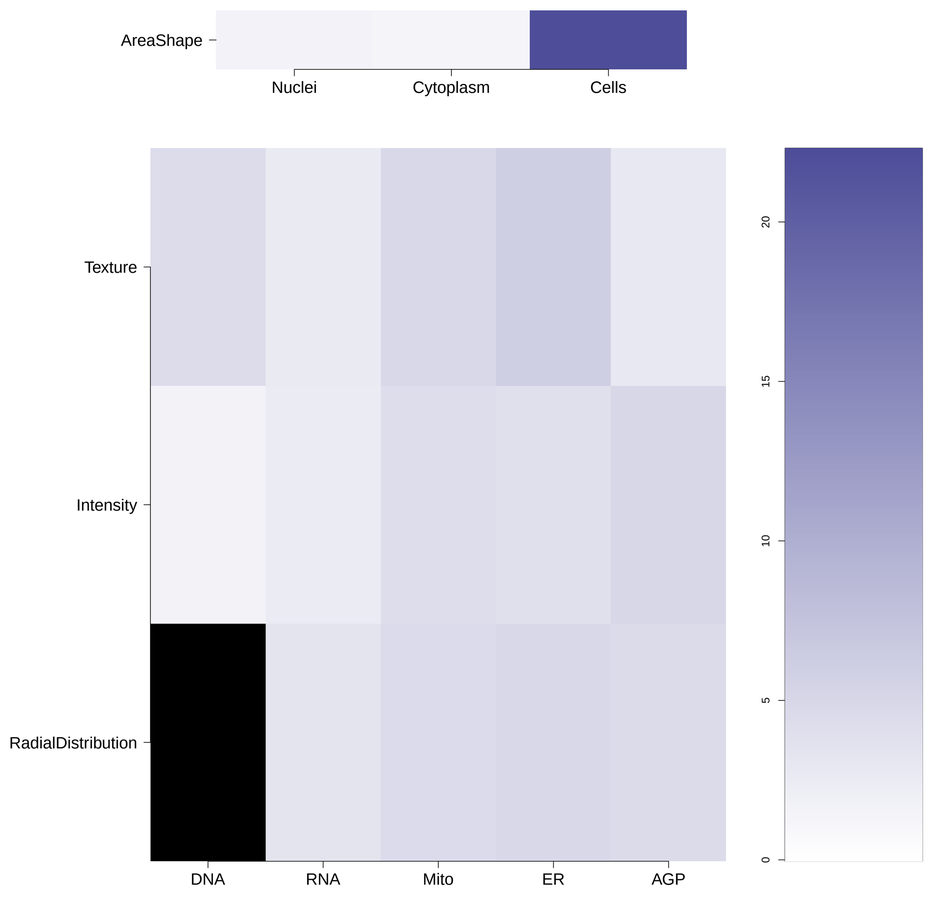
MAPK1_WT.2 - in Canonical MAPK

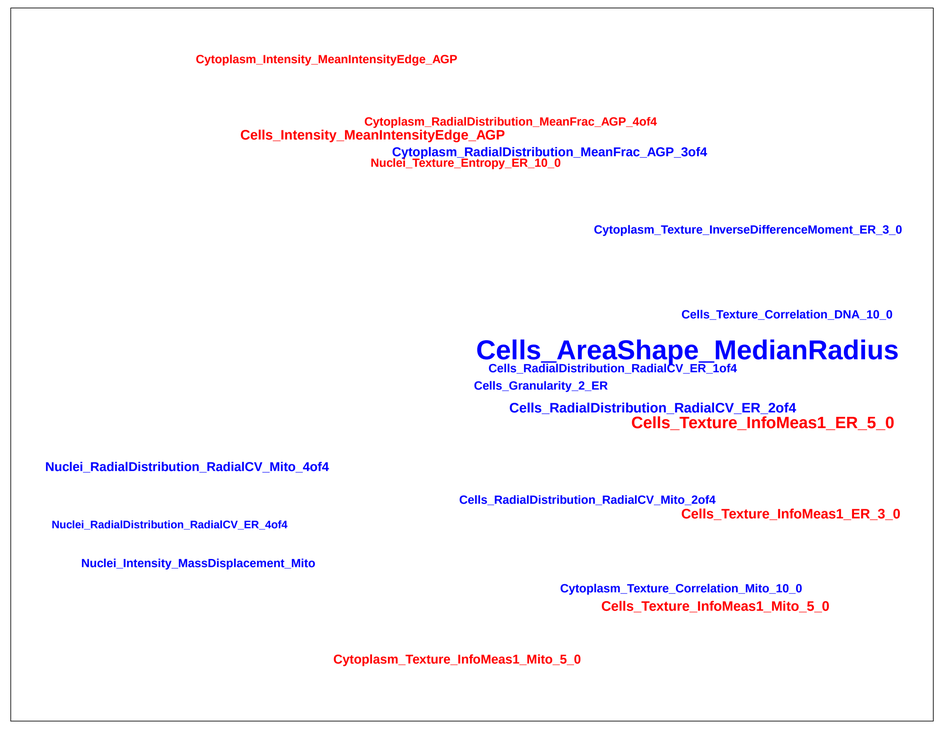
How similar is this gene to the other genes?

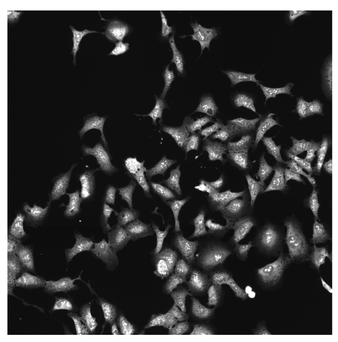
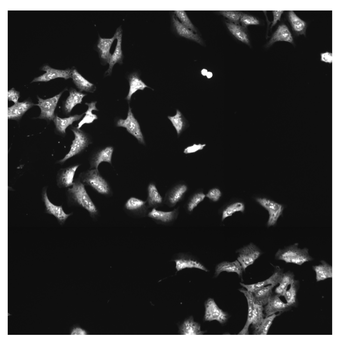
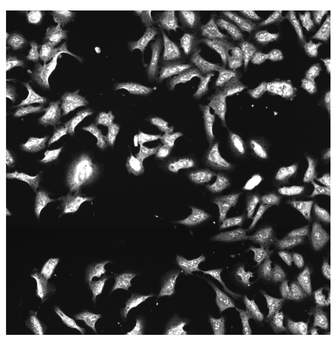
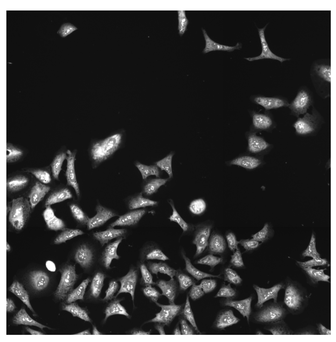
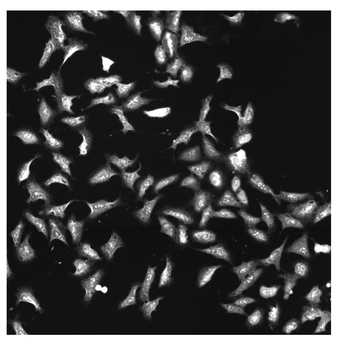
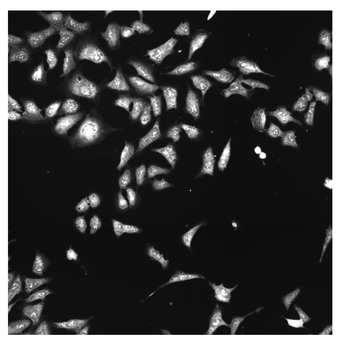
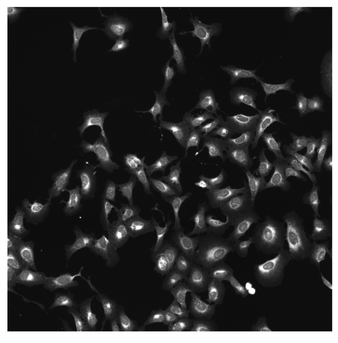
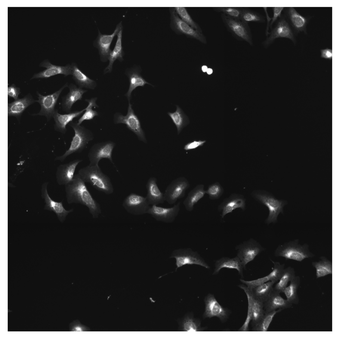
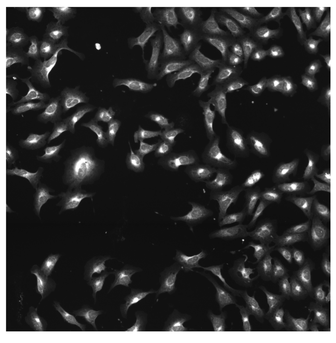
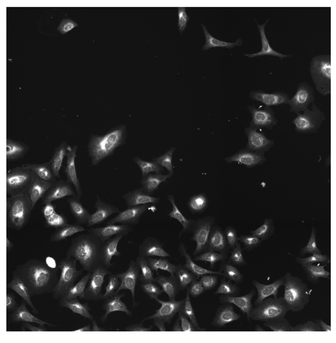
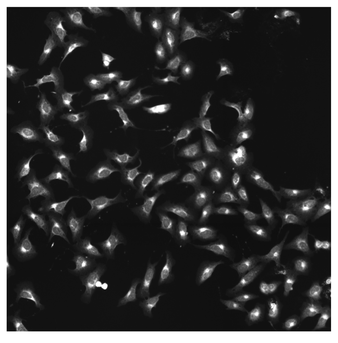
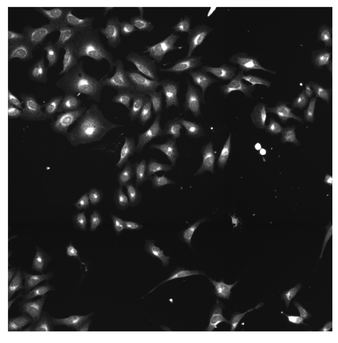


What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

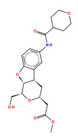
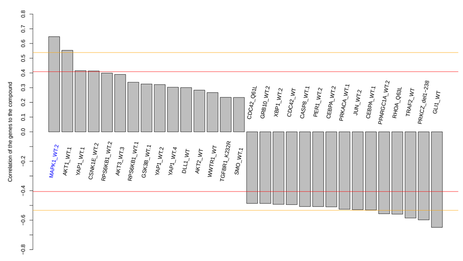
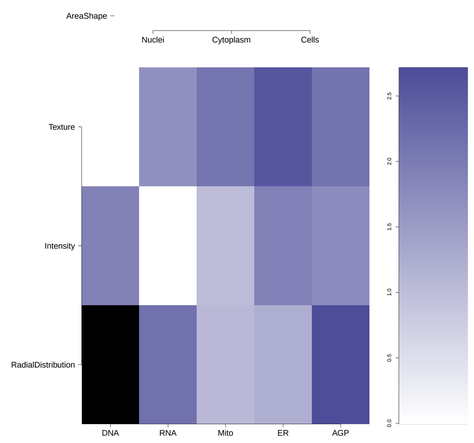
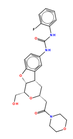
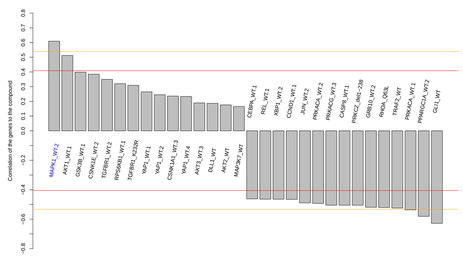
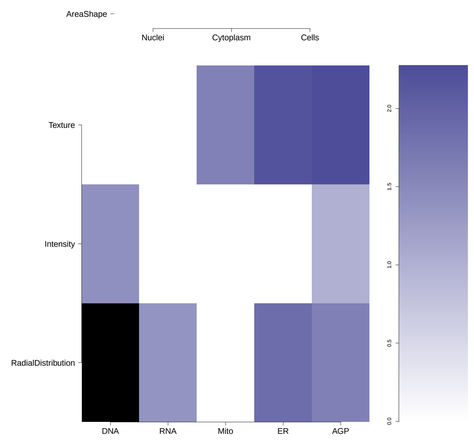
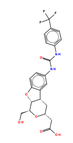
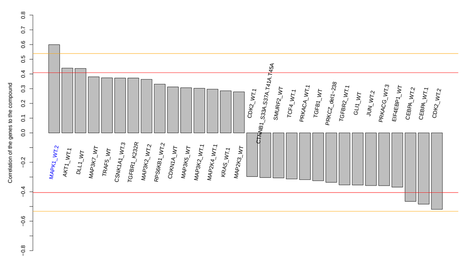
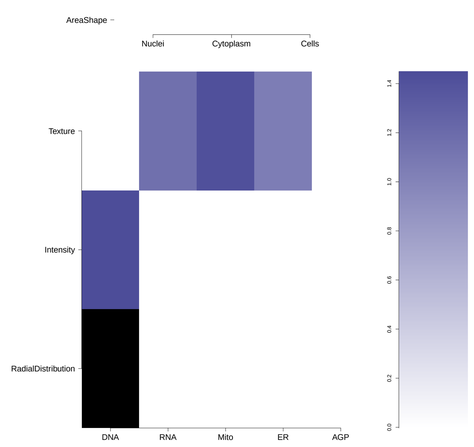
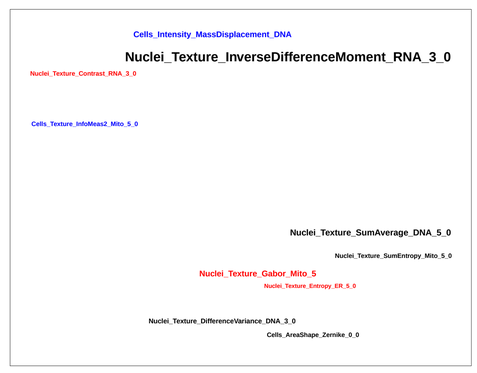
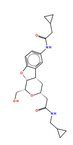
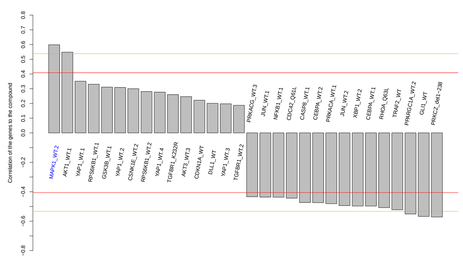
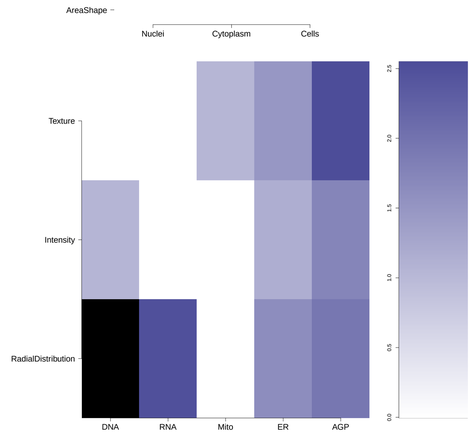
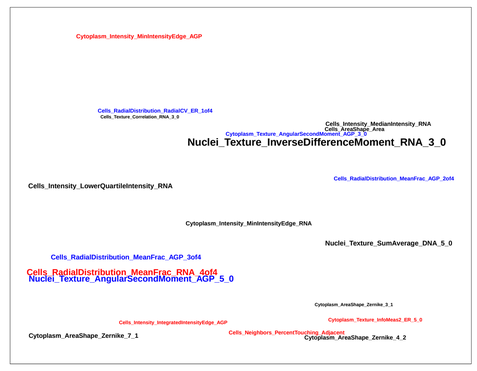
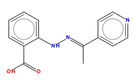
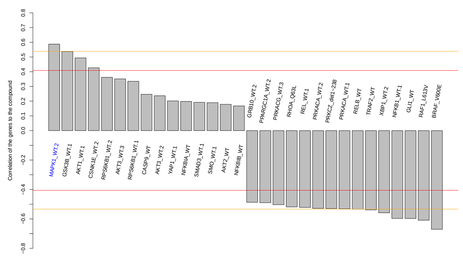
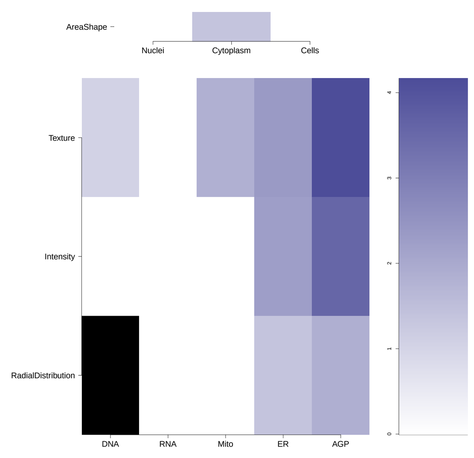
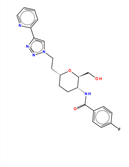
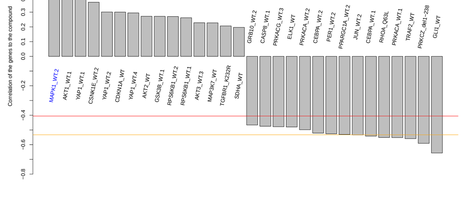
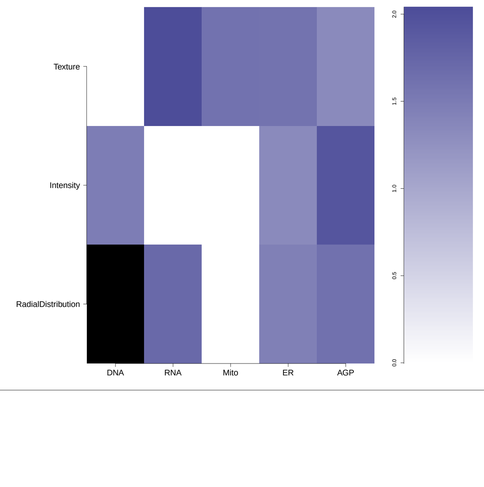
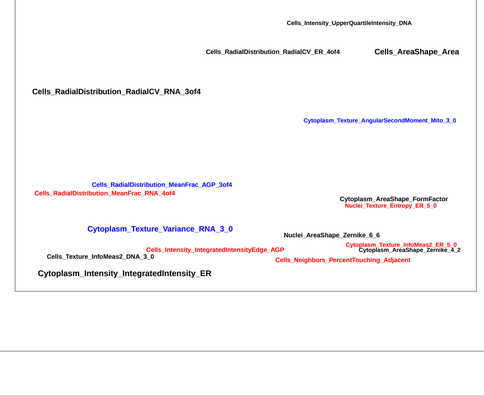


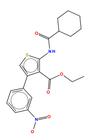
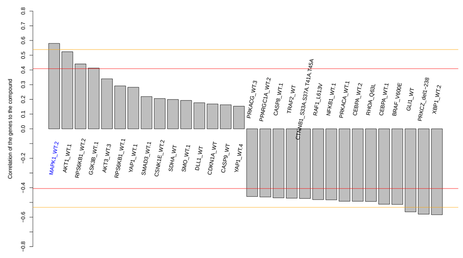
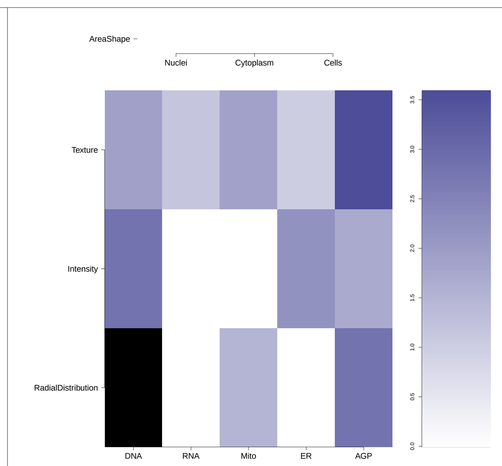
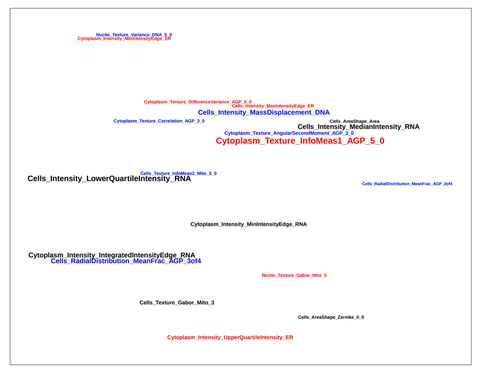
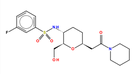
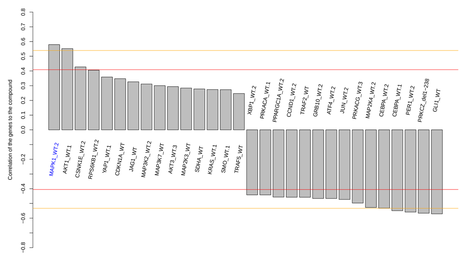
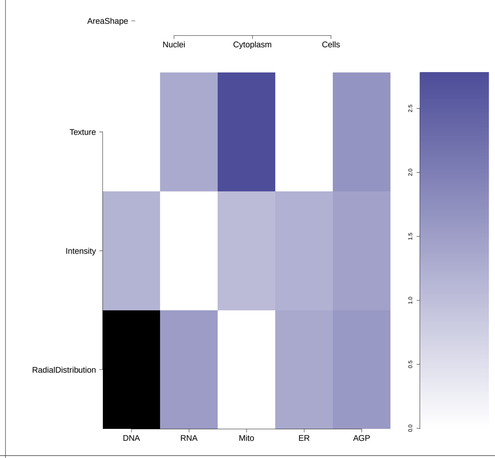
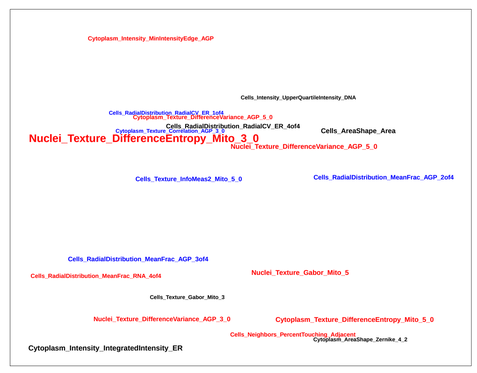
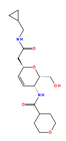
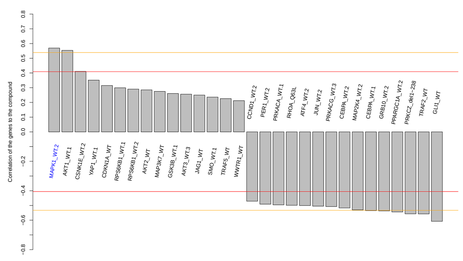
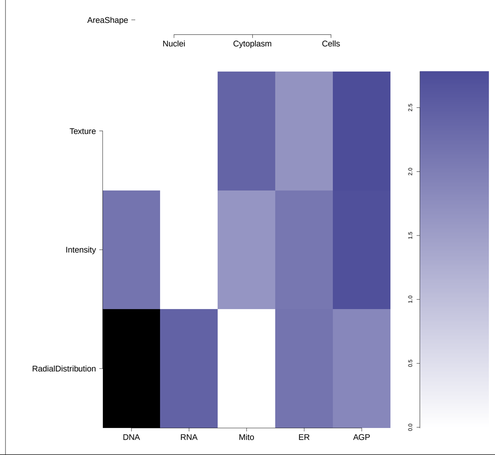
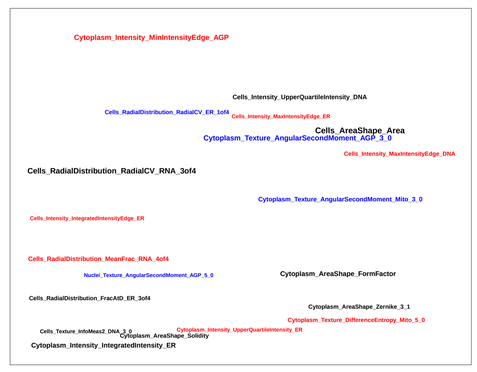
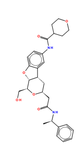
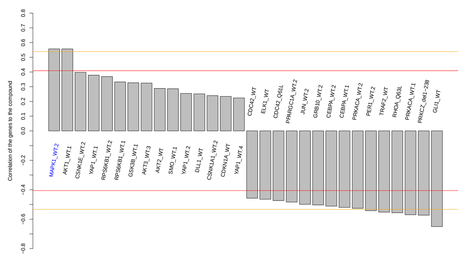
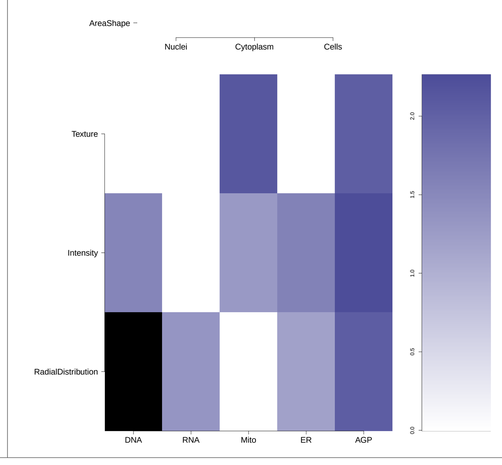
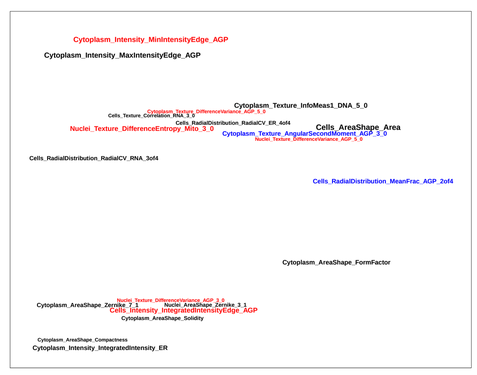
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

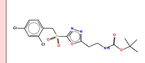
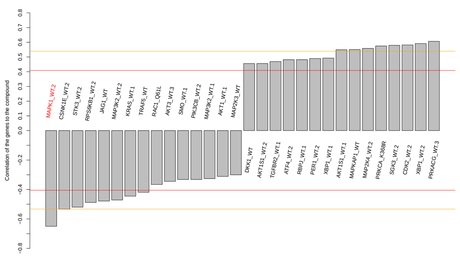
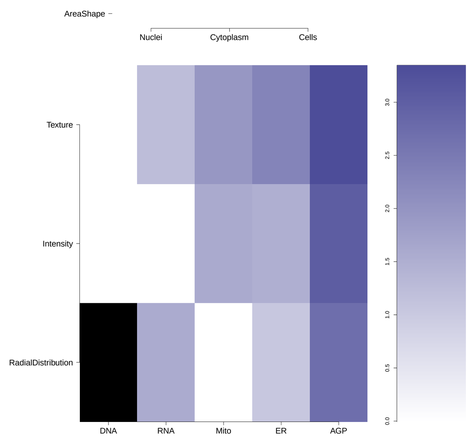


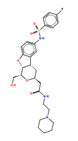
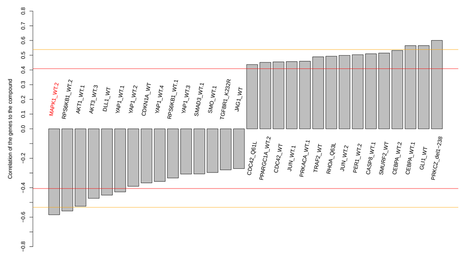
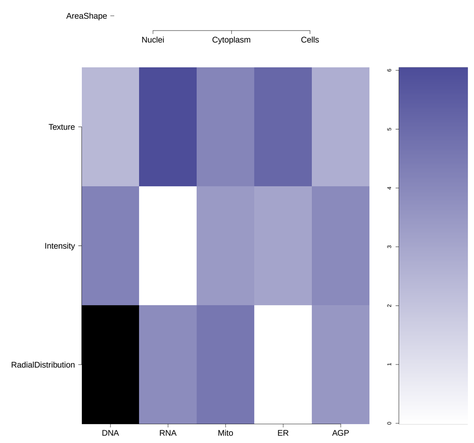
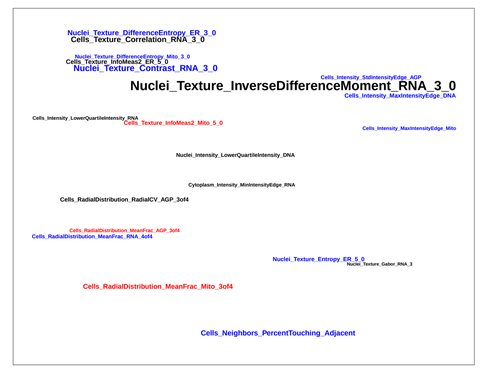
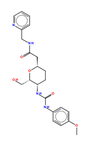
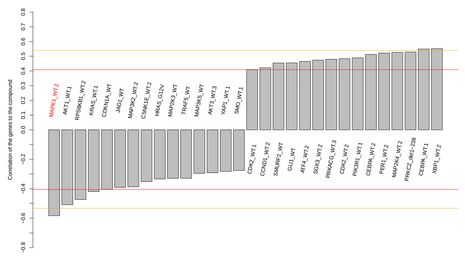
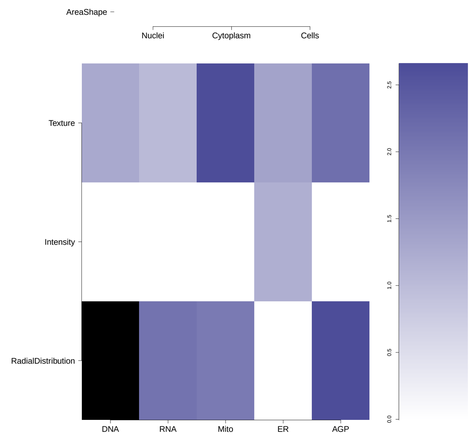
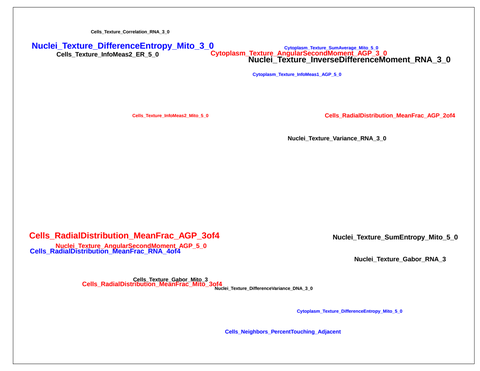
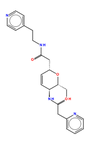
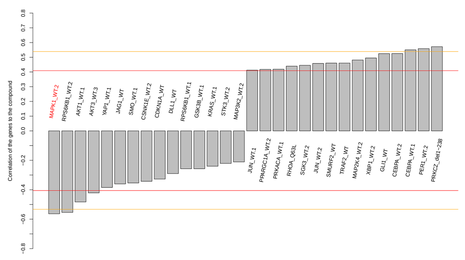
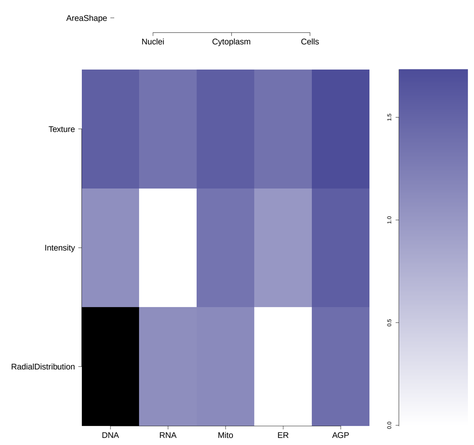
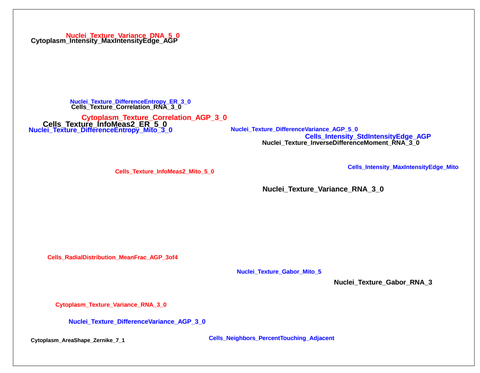
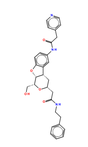
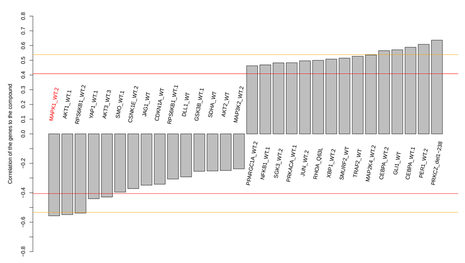
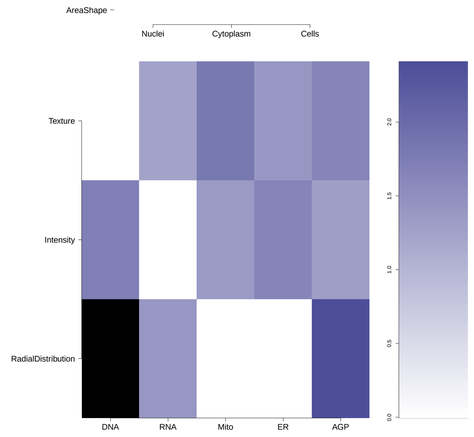
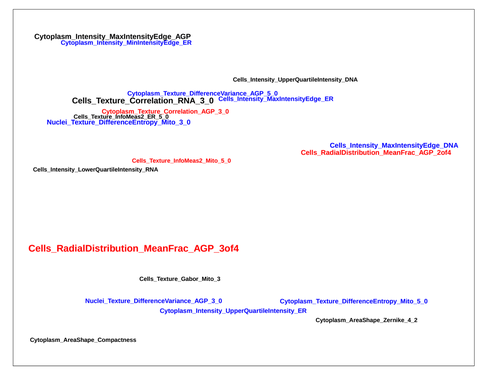
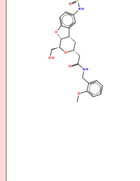
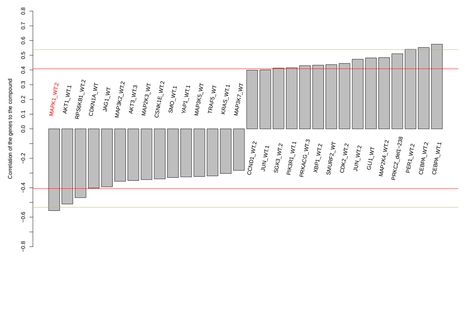
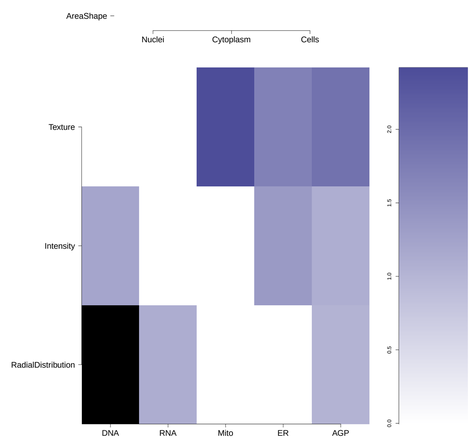
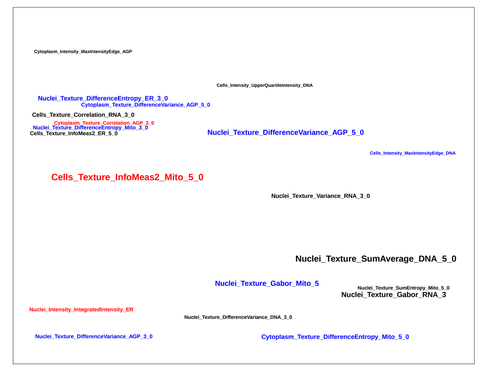
	Empty	MAPK1_WT.2 (41744)	MAPK1_WT.2 (41755)	MAPK1_WT.2 (41756)	MAPK1_WT.2 (41757)	MAPK1_WT.2 (41754)
RNA						
ER						

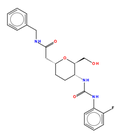
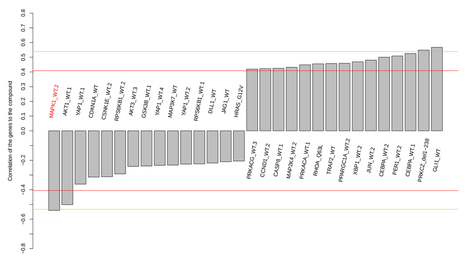
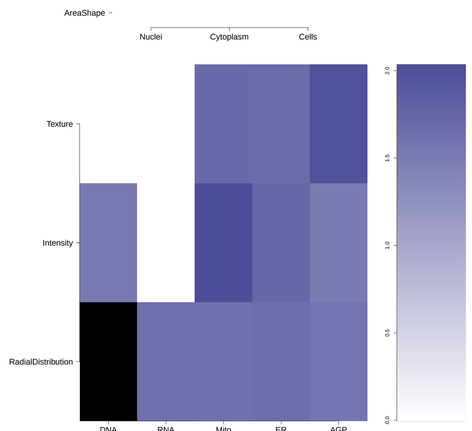
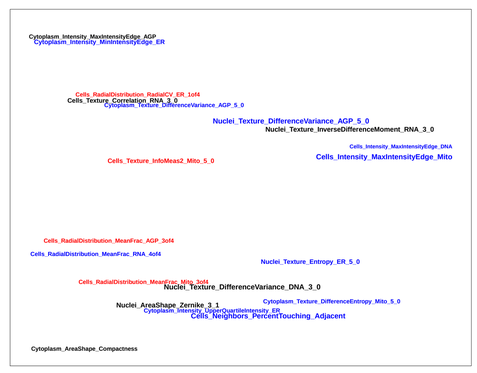
Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.51)	Correlation between compound 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-K78948132-001-01-1 PubChem CID : 54646011		NA (in 1 replicates)	0.65	0.679				Total number of assays tested in: 40.
BRD-K86800060-001-01-0 PubChem CID : 54646094		0.55 (in 2 replicates)	0.61	0.760				Total number of assays tested in: 41.
BRD-K07877451-001-01-1 PubChem CID : 54646108		NA (in 1 replicates)	0.60	0.991				Total number of assays tested in: 32.
BRD-K22356478-001-01-6 PubChem CID : 54645858		0.65 (in 2 replicates)	0.60	0.979				Total number of assays tested in: 41.
BRD-K59373532-001-05-2 T0504-1395 MLS001171537 ZINC5494430 SMR000591501 PubChem CID : 9613363		NA (in 1 replicates)	0.59	NA				Total number of assays tested in: 491. Active in the following assays: • MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) • Aqueous Solubility from MLSMR Stock Solutions (AID 1996) • Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of Protein Phosphatase Methylesterase 1 (PME-1). (AID 2130) • 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) • HTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 8 (SENP8) (AID 2540) • uHTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 6 (SENP6) (AID 2599) • uHTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 7 (SENP7) (AID 434973) • qHTS Assay for Rab9 Promoter Activators (AID 485297) • qHTS Assay for NPC1 Promoter Activators (AID 485313) • Single concentration confirmation of uHTS for inhibitors of Sentrin-specific protease 8 (SENP8) using a Luminescent assay (AID 488912) • Single concentration confirmation of uHTS for inhibitors of Sentrin-specific protease 6 (SENP6) using a Luminescent assay (AID 488915) • Single concentration confirmation of uHTS for inhibitors of Sentrin-specific protease 7 (SENP7) using a Luminescent assay (AID 488917) • Single concentration confirmation of inhibitors of Sentrin-specific proteases (SENPs) using a Caspase-3 Selectivity assay (AID 488918) • Single concentration confirmation of inhibitors of Sentrin-specific proteases (SENPs) using a Luminescent Interference Counterscreen assay (AID 488919) • qHTS screen for small molecules that induce genotoxicity in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504466) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)
BRD-K90324820-001-01-6 PubChem CID : 54640608		0.84 (in 4 replicates)	0.58	NA				Total number of assays tested in: 37. Active in the following assays: • ARNT-TAC3: AlphaScreen HTS to detect disruption of ARNT/TAC3 interactions Measured in Biochemical System Using Plate Reader - 2158-01_Inhibitor_SinglePoint_HTS_Activity (AID 623870) • ARNT-TAC3: AlphaScreen HTS to detect disruption of ARNT/TAC3 interactions Measured in Biochemical System Using Plate Reader - 2158-01_Inhibitor_Dose_CherryPick_Activity (AID 651703) • ARNT-TACC3: counter AlphaScreen Measured in Biochemical System Using Plate Reader - 2158-02_Inhibitor_Dose_CherryPick_Activity (AID 651705)

BRD-K38410475-001-05-7 MLS000580189 SMR000199720 ST50201348 MLS002546503 BDBM45021 HMS2160G04 HMS3312P14 ZINC959484 ZINC00959484 PubChem CID : 1194512		NA (in 1 replicates)	0.58	NA				Total number of assays tested in: 632. Active in the following assays: • Identification of Molecular Probes that Activate MRP-1 (AID 799) • Screen for Chemicals that Inhibit the RAM Network (AID 868) • qHTS Assay for Antagonists of the Neuropeptide S Receptor: cAMP Signal Transduction (AID 1461) • Profiling compound fluorescence on GSH Beads with 488 nm excitation and 530 nm emission (AID 1776) • VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) • Primary cell-based high-throughput screening assay for identification of compounds that potentiate/activate regulator of G-protein signaling 4 (RGS4) (AID 463111)
BRD-K83272071-001-01-2 PubChem CID : 54640253		0.68 (in 4 replicates)	0.58	0.679				Total number of assays tested in: 36.
BRD-K31197843-001-01-1 PubChem CID : 54640923		0.77 (in 4 replicates)	0.57	0.890				Total number of assays tested in: 37.
BRD-K51186655-001-01-6 PubChem CID : 54646470		0.80 (in 4 replicates)	0.56	0.683				Total number of assays tested in: 37.

BRD-K24598397-001-08-4 MLS000041932 SMR000046713 ZINC02419575 AC1LDDTU MLS002583822 CHEMBL259018 BDBM66247 HMS2273E06 ZINC2419575 STL348854 PubChem CID : 665449		NA (in 1 replicates)	-0.65	NA				Total number of assays tested in: 814. Active in the following assays: • Promiscuous and Specific Inhibitors of AmpC Beta-Lactamase (assay with detergent) (AID 584) • Promiscuous and Specific Inhibitors of AmpC Beta-Lactamase (assay without detergent) (AID 585) • Primary HTS assay for 5-Hydroxytryptamine (Serotonin) Receptor Subtype 1a (5HT1a) antagonists (AID 612) • Isolation of Inhibitors of Her-Kinase Expression - 66K library screen (AID 645) • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • qHTS Assay for Inhibitors of HPGD (15-Hydroxyprostaglandin Dehydrogenase) (AID 894) • Confirmation Concentration-Response Assay for Inhibitors of AmpC Beta-Lactamase (assay with detergent) (AID 1002) • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules. (AID 1381) • uHTS luminescence assay for the identification of compounds that inhibit NOD2 (AID 1566) • uHTS luminescence assay for the identification of compounds that inhibit NOD1 (AID 1578) • qHTS Multiplex Assay to Identify Dual Action Probes in a Cell Model of Huntington: Aggregate Formation (GFP) (AID 1688) • Plate Read Microorganism-Based Primary HTS to Identify Modulators of the AI-2 Quorum Sensing System (AID 2094) • Fluorescence Cell-Free Homogenous Primary HTS to Identify Inhibitors of RecA Intein Splicing Activity (AID 2221) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • Luminescence Cell-Based Primary HTS to Identify Inhibitors of A1 Apoptosis. (AID 2462) • VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) • HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732) • Inhibition of beta-lactamase AmpC (AID 318865) • Inhibition of beta-lactamase AmpC in presence of 0.1% Triton X-100 (AID 318866) • Inhibition of chymotrypsin (AID 318867) • Inhibition of chymotrypsin in presence of 0.1% Triton X-100 (AID 318868) • Fluorescence Cell-Free Homogeneous Dose Retest to Identify Inhibitors of RecA-Intein Splicing Activity (AID 435010) • Luminescence Cell-Based Dose Retest to Confirm Inhibitors of Cancer Stem Cells (AID 449748) • Fluorescence Cell-Free Homogeneous Secondary Screen to Identify Inhibitors of DnaB-Intein Splicing Activity (AID 449749) • Dose Response HTS Screen to Identify Cytotoxic Compounds of HMLE_sh_eGFP (AID 463074) • qHTS Inhibitors of AmpC Beta-Lactamase (assay without detergent) (AID 485341) • uHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346) • qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxiredoxins (AID 485364) • Elucidation of physiology of non-replicating, drug-tolerant Mycobacterium tuberculosis (AID 488890) • 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) • XBP1 DR counterscreen for CHOP (AID 504313) • CHOP Confirmatory Screen (AID 504437) • Antagonists of the Thyroid Stimulating Hormone Receptor: HTS campaign (AID 504810) • Inverse Agonists of the Thyroid Stimulating Hormone Receptor: HTS campaign (AID 504812) • TRFRET-based cell-based primary high throughput screening assay to identify biased ligands of the melanocortin 4 receptor (MC4R): antagonists of MC4R (AID 540295) • qHTS Assay for Inhibitors of Mammalian Selenoprotein Thioredoxin Reductase 1 (TrxR1): qHTS (AID 588453) • uHTS identification of cystic fibrosis induced NFkb Inhibitors in a fluoresence assay (AID 588850) • qHTS for Inhibitors of TGF-b (AID 588855) • qHTS for Inhibitors of TGF-b: Cytotox Counterscreen (AID 588856) • TRFRET-based cell-based high throughput confirmation assay for biased ligands (antagonists) of the melanocortin 4 receptor (MC4R) (AID 602195) • uHTS identification of small molecule inhibitors of the thioesterase domain of fatty acid synthase via a fluorescence intensity assay (AID 602261) • Luminescence-based biochemical primary high throughput screening assay to identify inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5) (AID 602281) • A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 624296) • Single concentration confirmation of uHTS inhibitor hits of the thioesterase domain of fatty acid synthase via a fluorescence intensity assay (AID 624325) • Dose response confirmation of small molecule inhibitors of the thioesterase domain of fatty acid synthase via a kinetic, fluorescence intensity assay (AID 624326) • Dose response confirmation of uHTS inhibitor hits of the thioesterase domain of fatty acid synthase via a fluorescence intensity assay (AID 624327) • Luminescence-based biochemical high throughput confirmation assay for inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5) (AID 651612) • qHTS for Inhibitors of ATXN expression (AID 651635) • Counterscreen for inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5): Luminescence-based biochemical high throughput assay to identify inhibitors of Hepatocyte nuclear factor 4 (HNF4) dimerization (AID 651674) • qHTS of D3 Dopamine Receptor Antagonist: qHTS (AID 652054) • qHTS for induction of synthetic lethality in tumor cells producing 2HG: qHTS for the HT-1080-NT fibrosarcoma cell line (AID 686970) • qHTS for induction of synthetic lethality in tumor cells producing 2HG: qHTS for the HT-1080-IDH1KD cell line (AID 686971) • 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) • qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279)

BRD-K67780580-001-01-8 PubChem CID : 54645922		NA (in 1 replicates)	-0.58	0.837				Total number of assays tested in: 42.
BRD-K28073972-001-01-2 PubChem CID : 54641222		NA (in 1 replicates)	-0.58	NA				Total number of assays tested in: 38.
BRD-K88362336-001-01-7 PubChem CID : 54640458		0.88 (in 4 replicates)	-0.56	0.308				Total number of assays tested in: 39. Active in the following assays: • DENV2 CPE-Based HTS Measured in Cell-Based and Microorganism Combination System Using Plate Reader - 2149-01_Other_SinglePoint_HTS_Activity (AID 651640)
BRD-K02445831-001-01-3 PubChem CID : 54646586		0.91 (in 4 replicates)	-0.56	0.321				Total number of assays tested in: 38.
BRD-K89567872-001-01-0 PubChem CID : 54646189		0.67 (in 3 replicates)	-0.56	0.321				Total number of assays tested in: 37.
BRD-K73792260-001-01-2 PubChem CID : 54640464		0.80 (in 4 replicates)	-0.55	0.321				Total number of assays tested in: 36.
BRD-K43695862-001-01-6 PubChem CID : 54641228		NA (in 1 replicates)	-0.55	NA				Total number of assays tested in: 35.

BRD-K35413741-001-01-1 PubChem CID : 54640338		0.67 (in 4 replicates)	-0.54	0.039				Total number of assays tested in: 35.
BRD-K26108750-001-01-6 PubChem CID : 54640710		0.66 (in 4 replicates)	-0.54	0.186				Total number of assays tested in: 37.