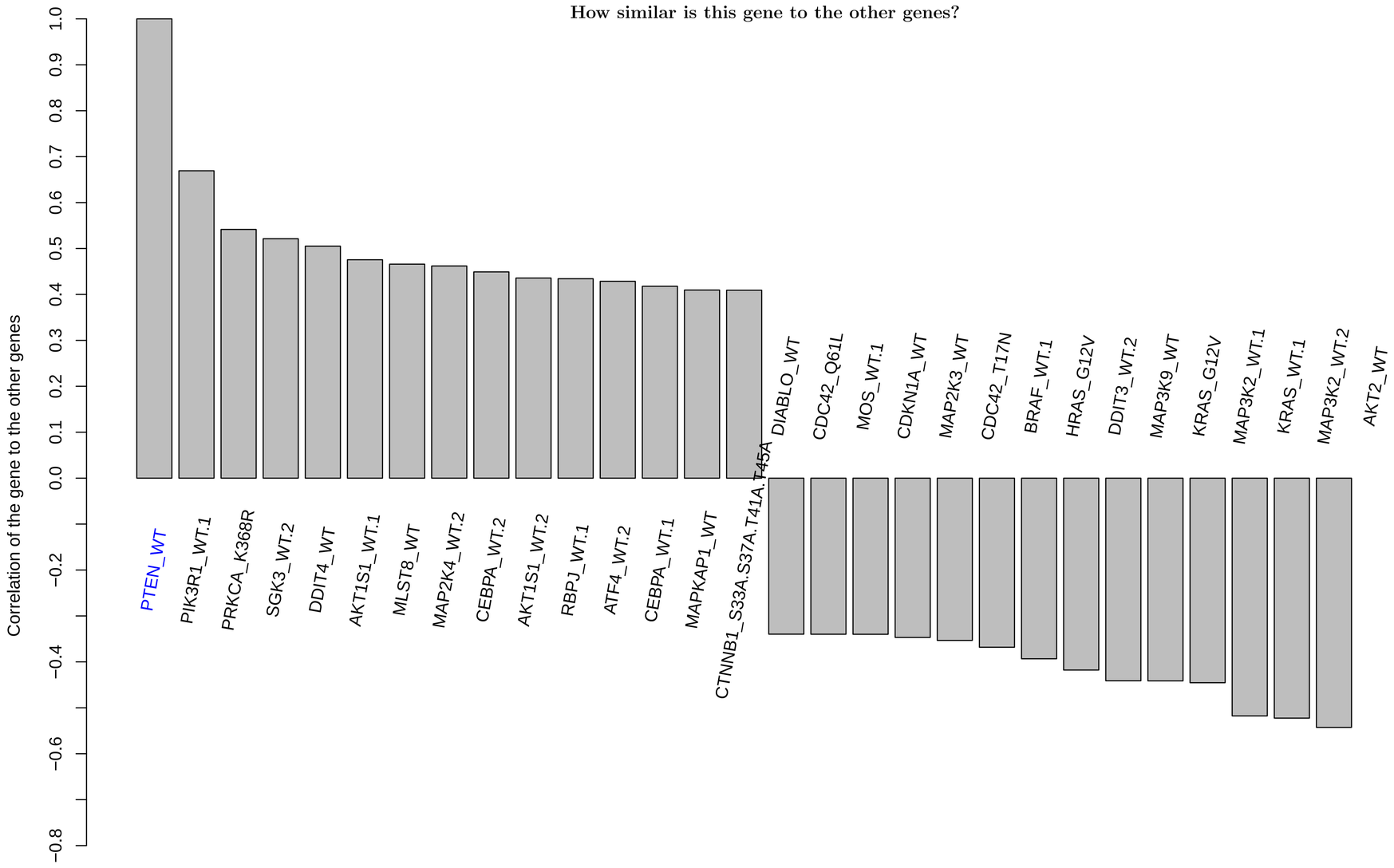
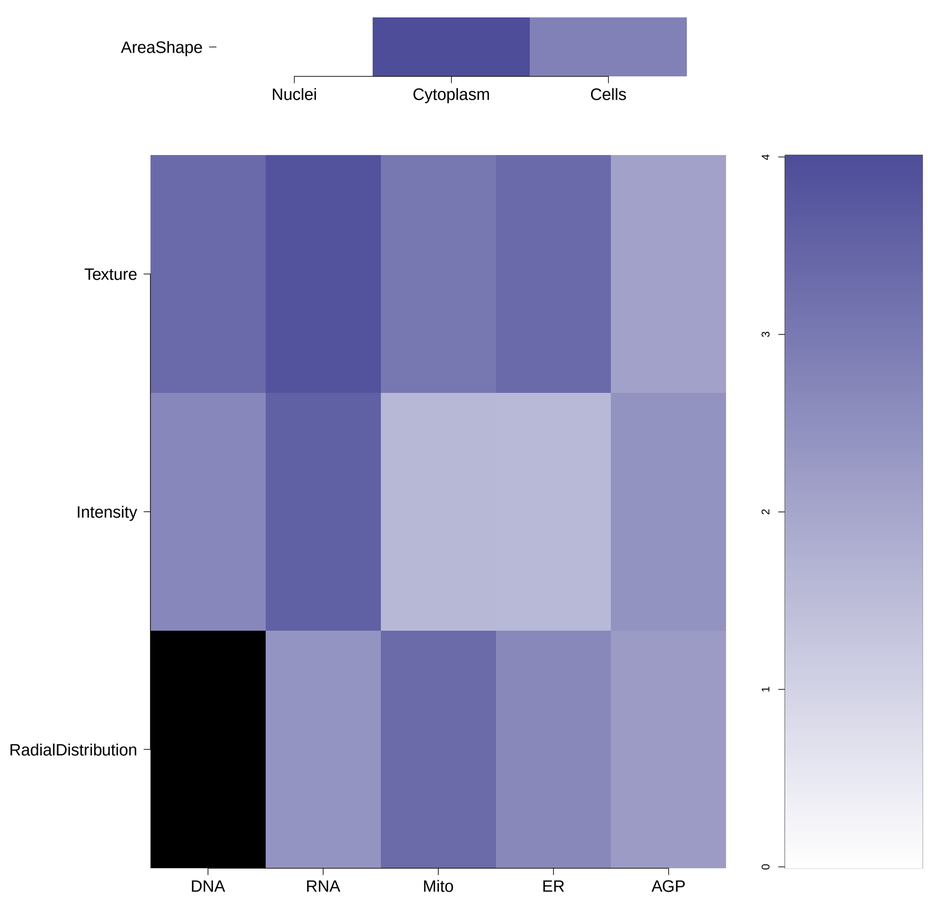
PTEN_WT - in Canonical PI3K/AKT

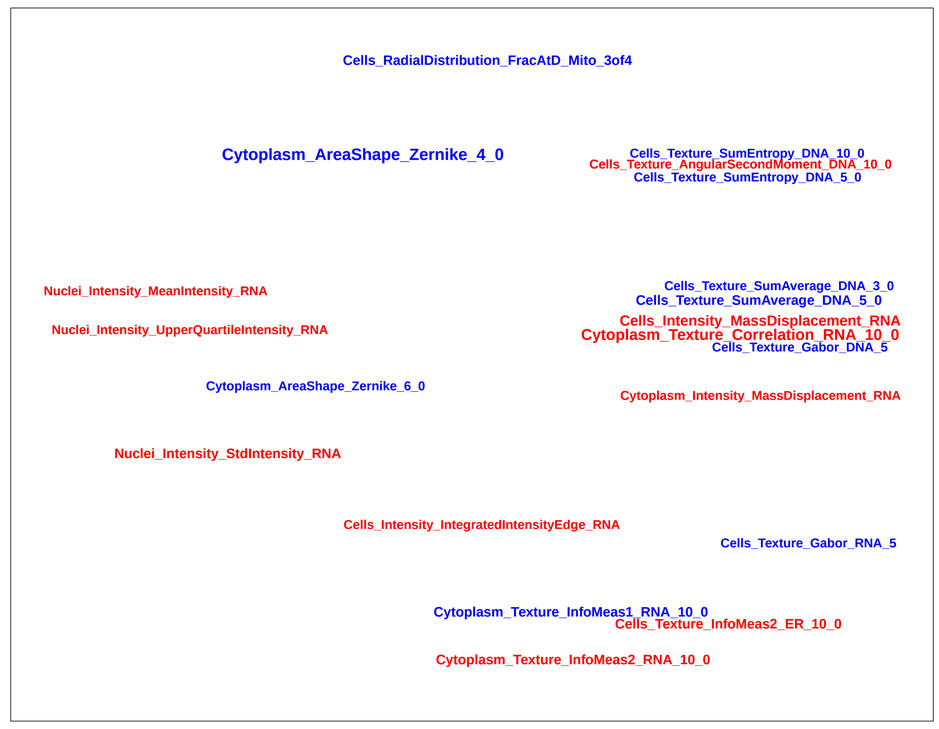
How similar is this gene to the other genes?



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

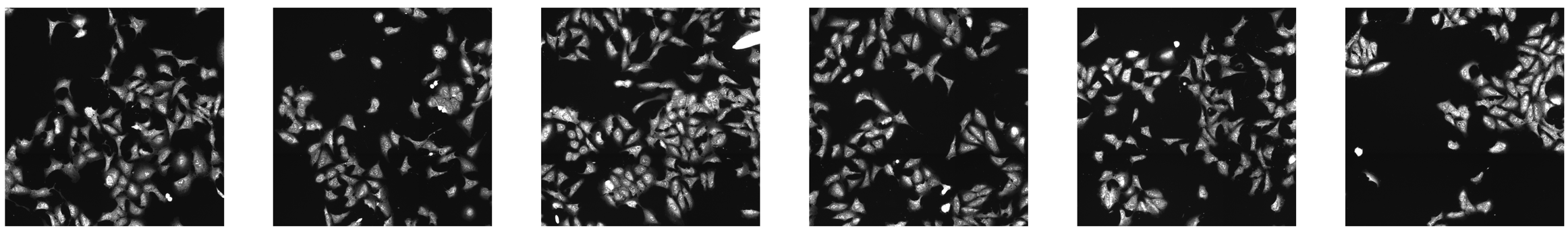


Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

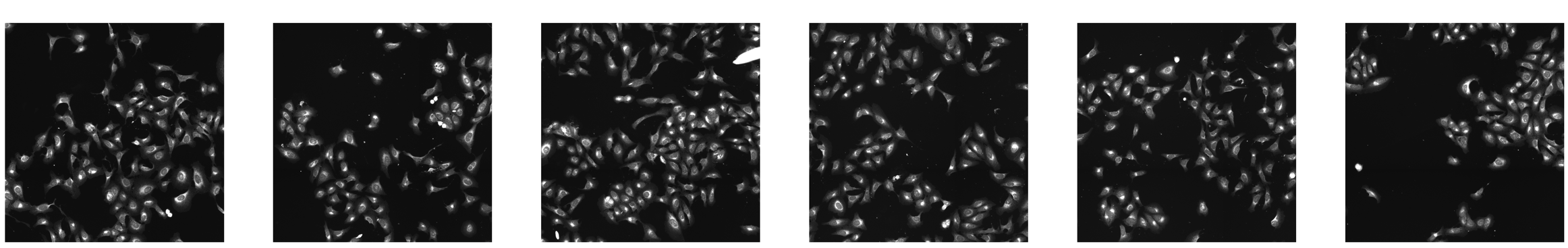


Empty | PTEN_WT (41744) | PTEN_WT (41755) | PTEN_WT (41756) | PTEN_WT (41757) | PTEN_WT (41754)

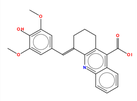
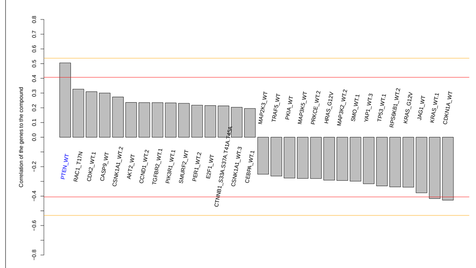
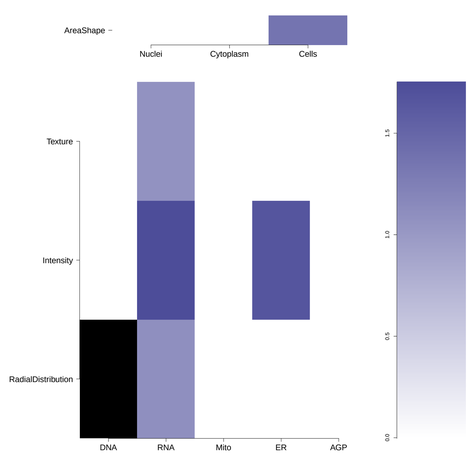
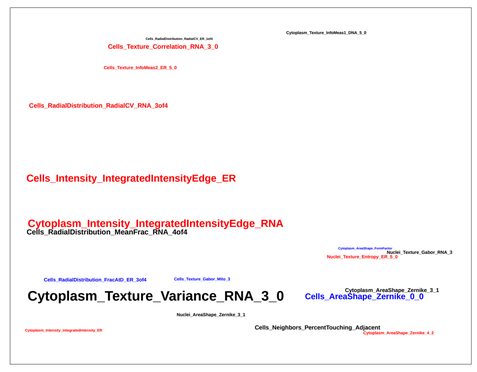
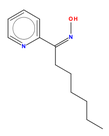
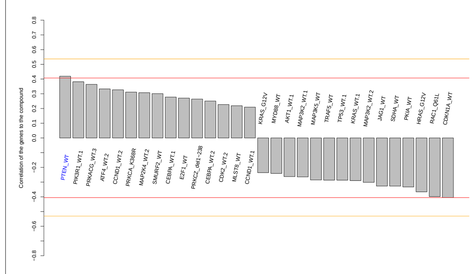
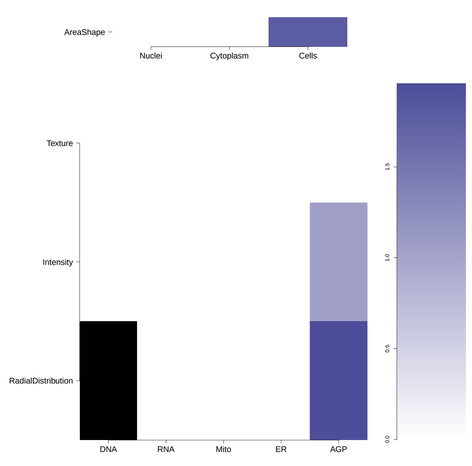
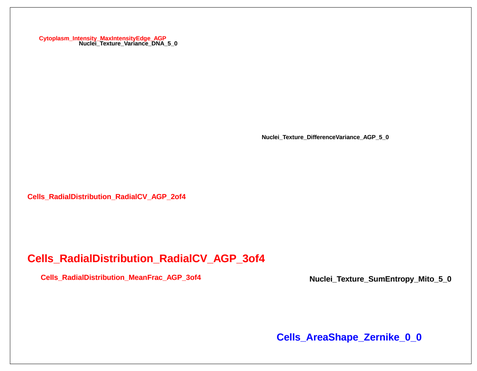
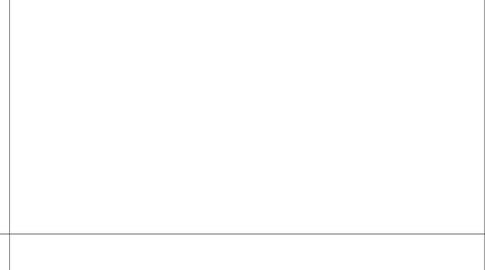
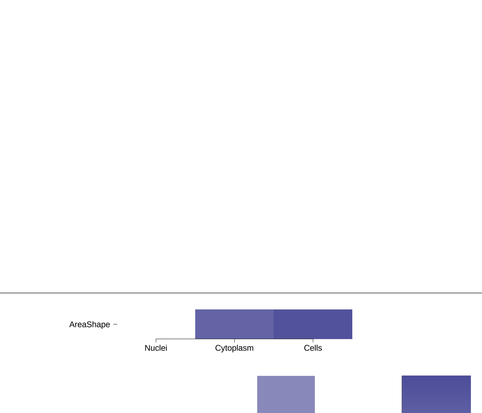
RNA

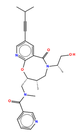
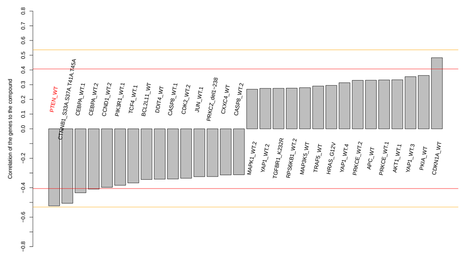
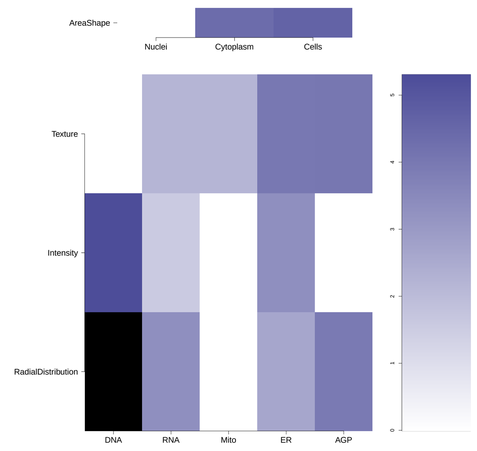
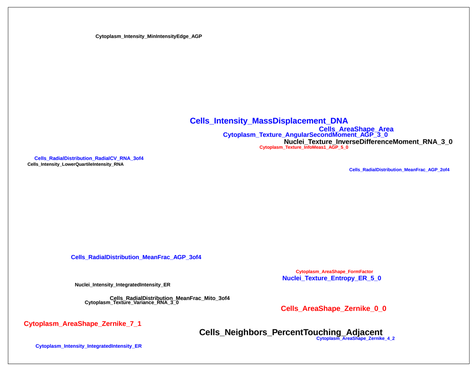
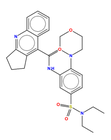
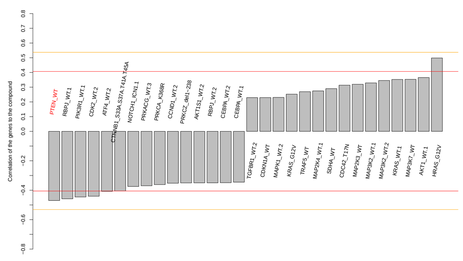
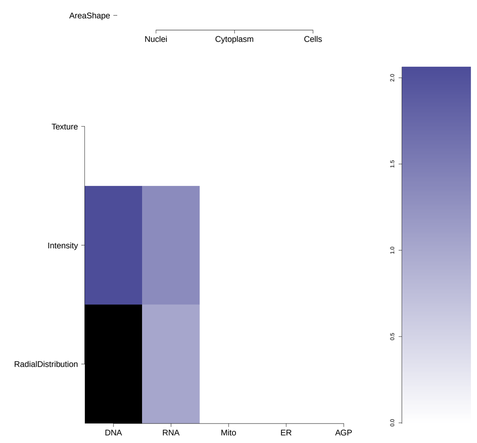
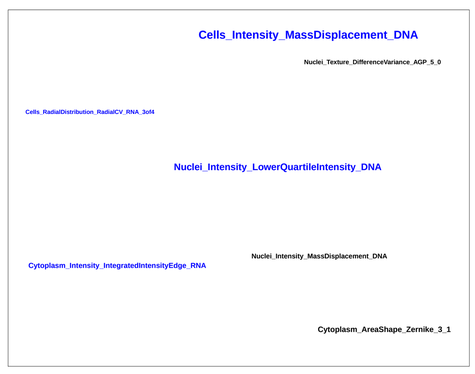
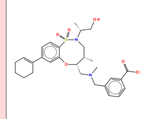
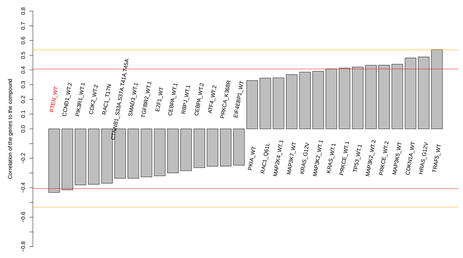
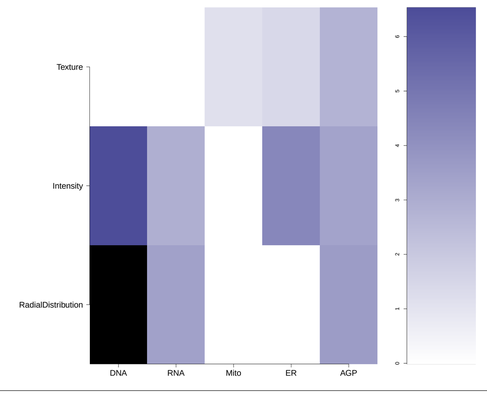
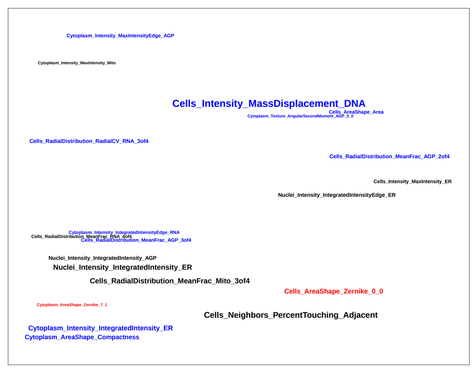
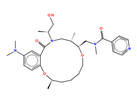
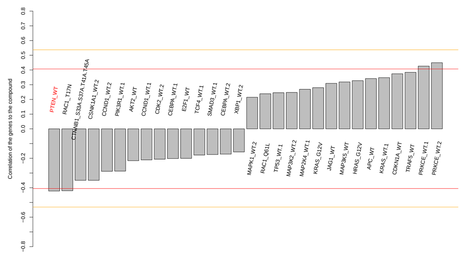
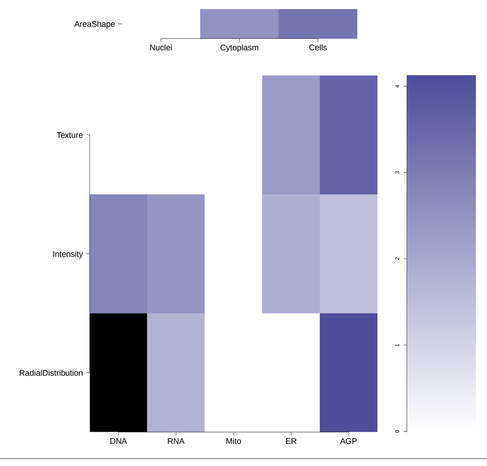


ER



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 0.52)	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-K16942891-001-06-9 T5376318 MLS000773828 AC1O30A9 HMS2743L18 ZINC6639639 ZINC96766291 SMR000364690 PubChem CID : 6212642		0.65 (in 2 replicates)	0.51	NA				Total number of assays tested in: 569. Active in the following assays: • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490) • 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) • qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxiredoxins (AID 485364) • HTS using DiI-HDL to assay lipid transfer in ldlA[SR-BI] cells Measured in Cell-Based System Using Plate Reader - 2085-01_Activator_SinglePoint_HTS_Activity (AID 504775) • qHTS Assay for the Inhibitors of Human Flap endonuclease 1 (FEN1). (AID 588795) • A quantitative high throughput screen for small molecules that induce DNA re-replication in SW480 colon adenocarcinoma cells. (AID 624297) • qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504)
BRD-K59069616-001-06-3 AC1NTUY5 HMS2318K06 PubChem CID : 5389069		NA (in 1 replicates)	0.42	NA				Total number of assays tested in: 795. Active in the following assays: • Fluorescent HTS Cytotoxicity/Cell viability assay (HPDE-C7 cells) (AID 430) • Fluorescent HTS Cytotoxicity/Cell viability assay (HPDE-C7K cells) (AID 431) • Primary Antimicrobial Assay for E. coli BW25113 and 8710;tolC::kan Protocol for 384-well HTS (AID 573) • Human H69AR Lung Tumor Cell Growth Inhibition Assay - 86K Screen (AID 598) • Antimicrobial Assay for E. coli BW25113 and 8710;tolC::kan - Dose Response (AID 617) • Antimicrobial Assay for E. coli BW25113 (wild type) mutant pool - DR (AID 635) • Antimicrobial Assay for E. coli BW25113 (wild type) - DR (AID 638) • Human Endothelial Cell Proliferation Assay in 384-well format (AID 648) • Screening for Modulators of Post-Golgi Transport, Control Strain (AID 738) • Screen for Chemicals that Shorten Yeast Lifespan (AID 804) • High Throughput Screen to Identify Compounds that Suppress the Growth of Human Colon Tumor Cells Lacking Oncogenic Beta Catenin Expression (AID 818) • Screen for Chemicals that Shorten Yeast Lifespan, Dose response (AID 849) • Screen for Chemicals that Shorten Yeast Lifespan, Dose Response Permissive Growth Control (AID 850) • Leishmania major promastigote HTS (AID 1063) • MLPCN Streptokinase Expression Inhibition (AID 1662) • Luminescence Microorganism-Based Dose Confirmation HTS to Identify Compounds Cytotoxic to SK(-)GAS Group A Streptococcus (AID 1900) • Luminescence Microorganism-Based Dose Confirmation HTS to Identify Inhibitors of Streptokinase Promotor Activity (AID 1902) • Luminescence Microorganism-Based Dose Response HTS to Identify Compounds Cytotoxic to Streptococcus (AID 1915) • VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) • 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 tim23-1 yeast via a luminescent assay (AID 463218) • 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) • In vivo-based yeast HTS to detect compounds rescuing yeast growth/survival of Plasmodium Falciparum HSP40-mediated toxicity Measured in Whole Organism System Using Plate Reader - 2120-01_Inhibitor_SinglePoint_HTS_Activity (AID 504582) • Antagonist of Human D 1 Dopamine Receptor: qHTS (AID 504652) • 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) • Fluorescence polarization-based biochemical high throughput confirmation assay for inhibitors of the HTRA serine peptidase 1 (HTRA1) (AID 540248) • uHTS identification of antagonists of the CRF-binding protein and CRF-R2 receptor complex (AID 588475) • QFRET-based biochemical high throughput primary assay to identify inhibitors of human group III secreted phospholipase A2 enzyme (HGIII-sPLA2) (AID 743126)
BRD-K18750949-001-05-8 T0511-4137 AC1M5URR MLS000394492 HMS2538M22 ZINC12604270 SMR000261905 PubChem CID : 2361091		0.71 (in 2 replicates)	0.42	NA				Total number of assays tested in: 644. Active in the following assays: • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • qHTS for Inhibitors of Tau Fibril Formation, Thioflavin T Binding (AID 1460) • Multiplex HTS Assay for Inhibitors of MEK Kinase PB1 Domains, specifically MEK5 MEK Kinase3 Wildtype (AID 1529) • Identification of SV40 T antigen inhibitors: A route to novel anti-viral reagents (AID 1903) • Inhibitors of the vitamin D receptor (VDR): qHTS (AID 504847)
BRD-K03678940-001-05-7 MLS000535047 SMR000142484 ZINC00472677 AC1LHZX5 BDBM76404 HMS2338G04 ZINC472677 STK862584 PubChem CID : 895604		NA (in 1 replicates)	0.41	NA				Total number of assays tested in: 688. Active in the following assays: • CYP2C9 Assay (AID 777) • Primary screen for compounds that activate Insulin promoter activity in TRM-6 cells (AID 1296) • uHTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 7 (SENP7) (AID 434973) • Dose Response confirmation of inhibitors of Sentrin-specific proteases (SENPs) using a Caspase-3 Selectivity assay (AID 488901) • Dose Response confirmation of uHTS for inhibitors of Sentrin-specific protease 7 (SENP7) using a Luminescent assay (AID 488904) • Single concentration confirmation of uHTS for inhibitors of Sentrin-specific protease 7 (SENP7) using a Luminescent assay (AID 488917) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)

BRD-K35231228-001-01-9 PubChem CID : 54618837		0.88 (in 3 replicates)	-0.52	0.821				Total number of assays tested in: 37.
BRD-K18367191-001-05-6 MLS000409344 SMR000247607 T5294282 AC1NIISZ MLS002635448 BDBM50318 HMS2514J21 ZINC8687932 ZINC08687932 PubChem CID : 4831734		NA (in 1 replicates)	-0.47	NA				Total number of assays tested in: 651. Active in the following assays: • uHTS of Mcl-1/Noxa interaction inhibitors (AID 1022) • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • Dose Response Confirmation for Mcl-1/Noxa Interaction Inhibitors (AID 1417) • TR-FRET-based primary biochemical high-throughput screening assay to identify inhibitors of Hepatitis C Virus (HCV) core protein dimerization (AID 1899) • uHTS identification of small molecules that induce b-cell replication in the MIN-6 cell line (AID 2380) • qHTS Assay for Inhibitors of RecQ-Like Dna Helicase 1 (RECQ1) (AID 2549) • Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of the plasma platelet activating factor acetylhydrolase (pPAFAH) (AID 463082) • qHTS Assay for Inhibitors of DNA Polymerase Beta (AID 485314) • qHTS Assay for the Inhibitors of L3MBTL1 (AID 485360) • uHTS Colorimetric assay for identification of inhibitors of Scp-1 (AID 493091) • qHTS screen for small molecules that inhibit ELG1-dependent DNA repair in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504467) • 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) • qHTS Assay for the Inhibitors of L3MBTL1: Hit Validation (AID 540279) • Inhibitors of DNA Polymerase Beta: Hit validation (AID 540280) • Single concentration confirmation of uHTS hits for Scp-1 phosphatase using a colorimetric assay (AID 540281) • Inhibitors of DNA Polymerase Beta: Hit Validation in Radiolabeled Extension Assay (AID 540325) • uHTS identification of DNMT1 inhibitors in a Fluorescent Molecular Beacon assay (AID 588458) • qHTS for Inhibitors of Polymerase Iota (AID 588590) • qHTS for Inhibitors of Polymerase Eta (AID 588591) • Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human trace amine associated receptor 1 (TAAR1) (AID 624466) • qHTS for Inhibitors of phosphatidylinositol 5-phosphate 4-kinase (PI5P4K) (AID 652105) • 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) • Fluorescence polarization-based biochemical high throughput primary assay to identify inhibitors of alpha/beta hydrolase domain containing 4 (ABHD4). (AID 720543) • Fluorescence polarization-based biochemical high throughput confirmation assay to identify inhibitors of alpha/beta hydrolase domain containing 4 (ABHD4). (AID 720658)
BRD-K70018966-001-01-2 PubChem CID : 54618727		0.65 (in 3 replicates)	-0.43	0.162				Total number of assays tested in: 35.
BRD-K28531276-001-01-2 PubChem CID : 44485129		0.70 (in 4 replicates)	-0.42	0.675				Total number of assays tested in: 31.