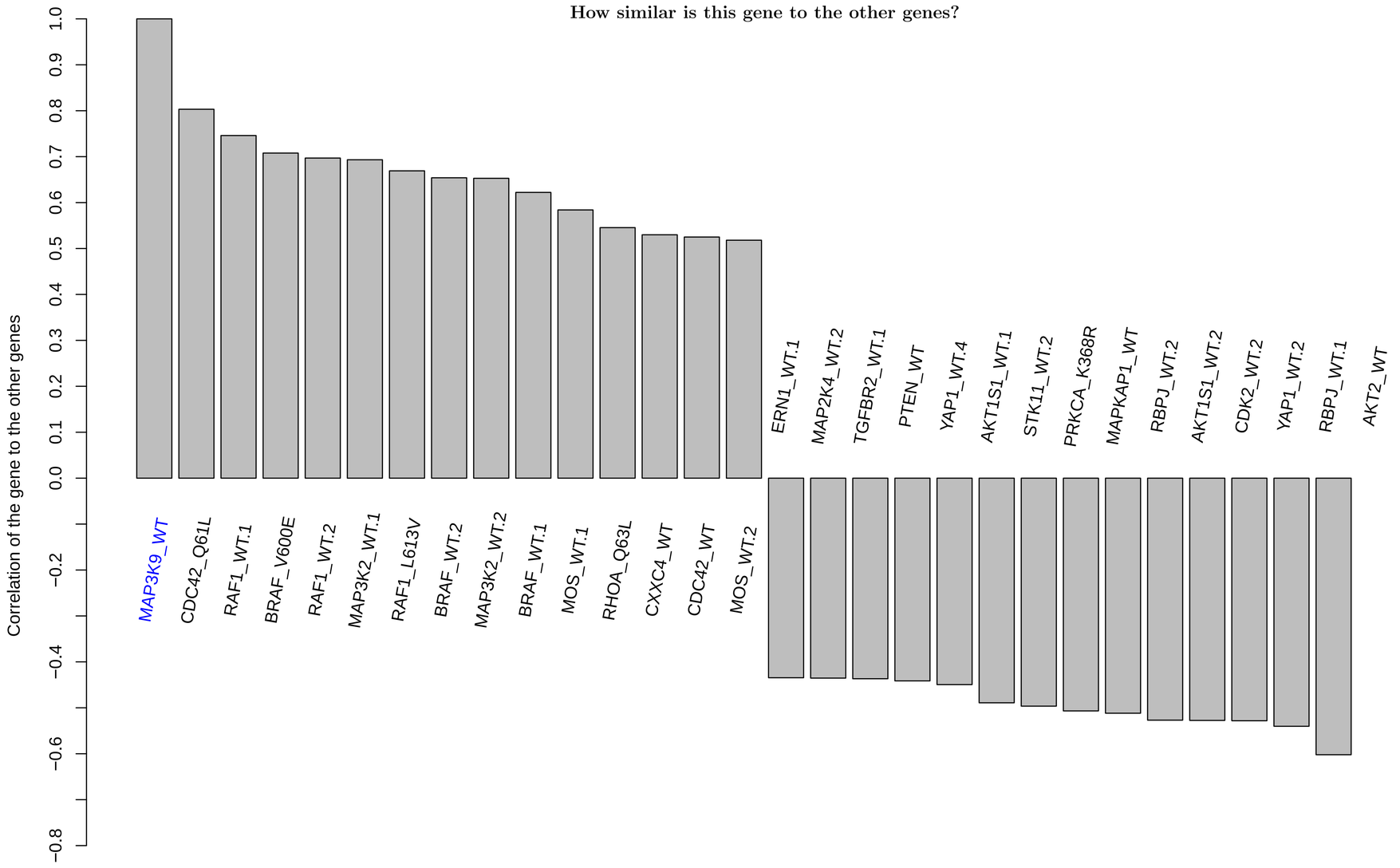
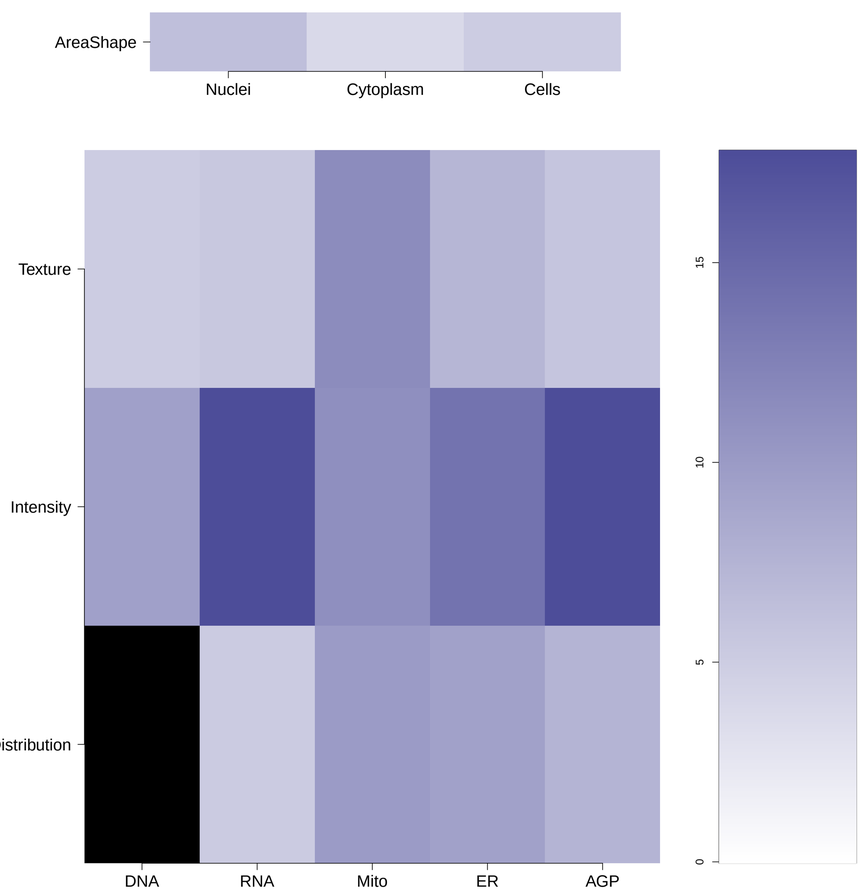
MAP3K9_WT - in Canonical MAPK

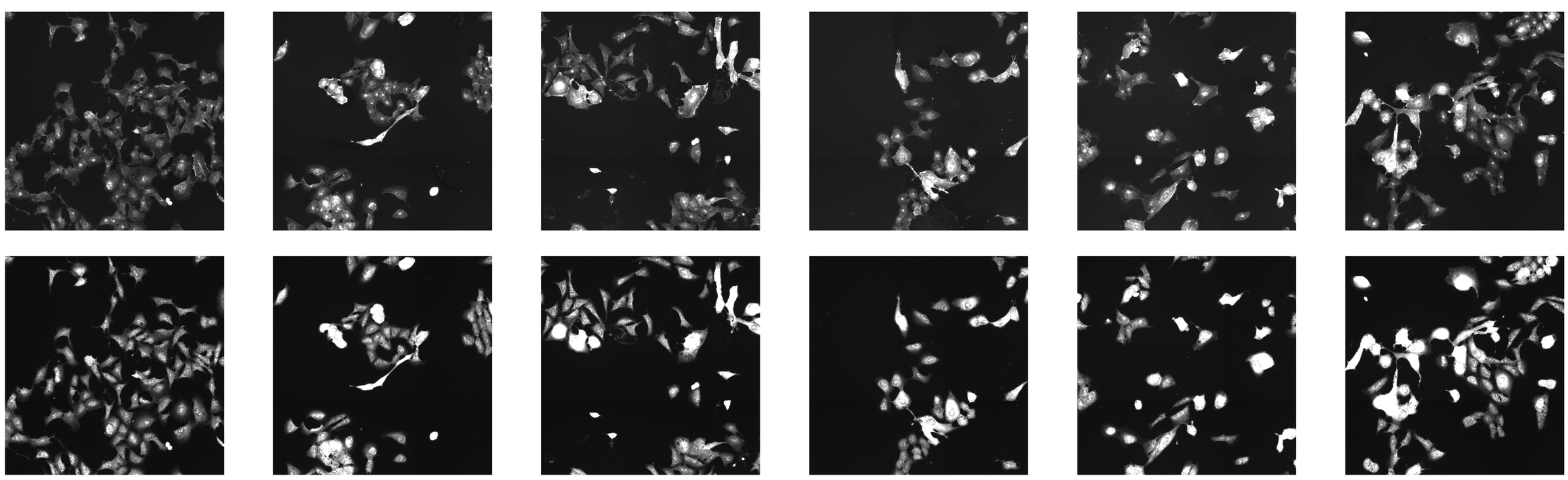
How similar is this gene to the other genes?



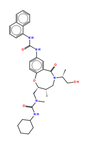
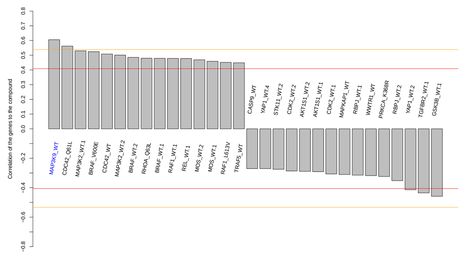
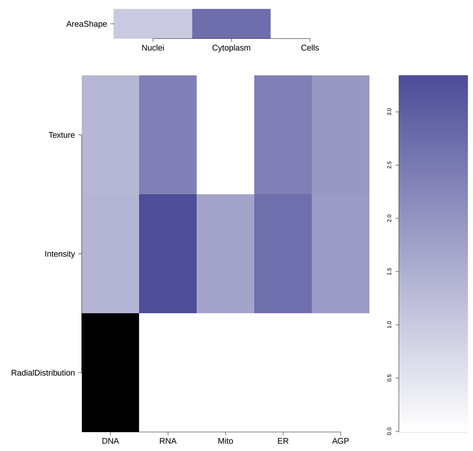
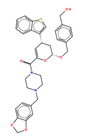
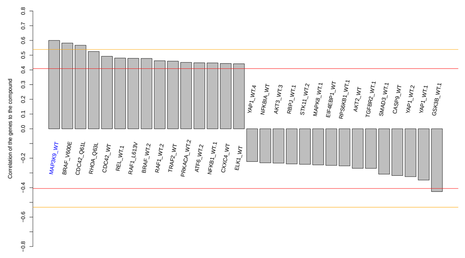
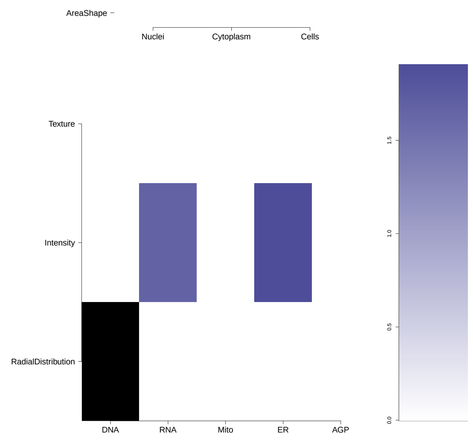
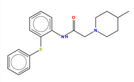
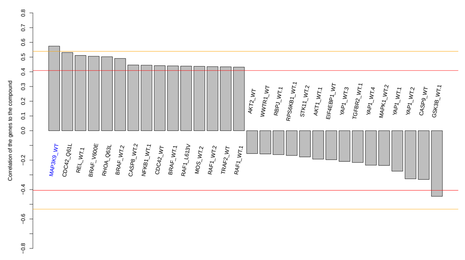
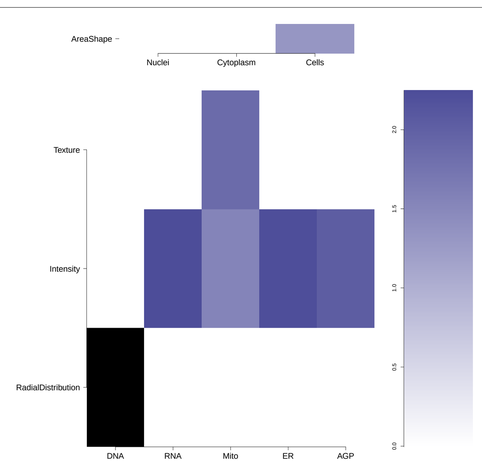
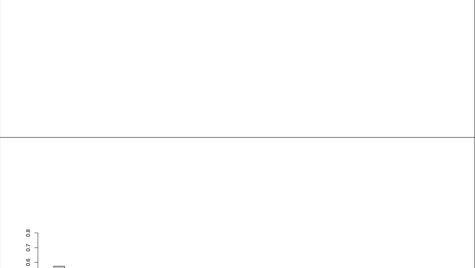
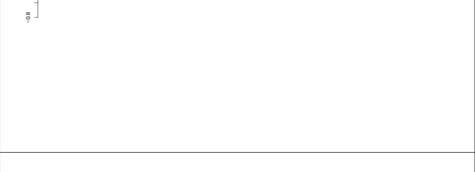
What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

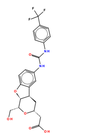
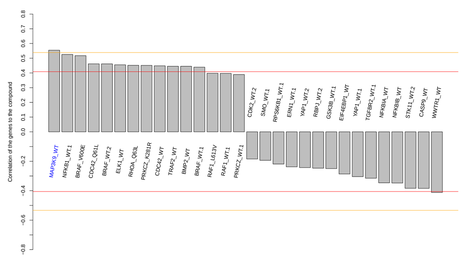
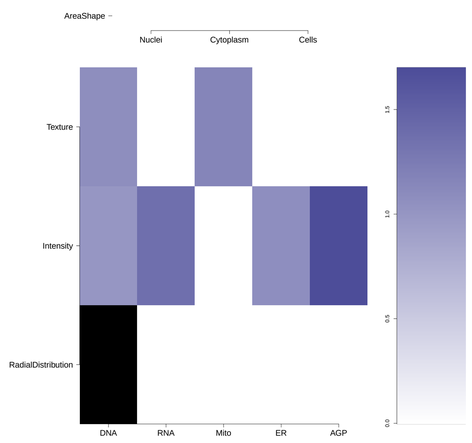
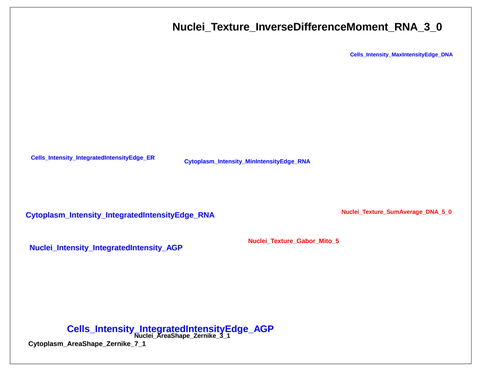
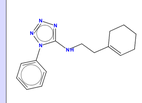
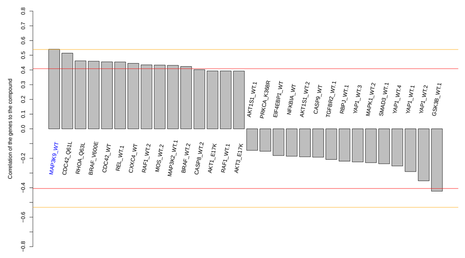
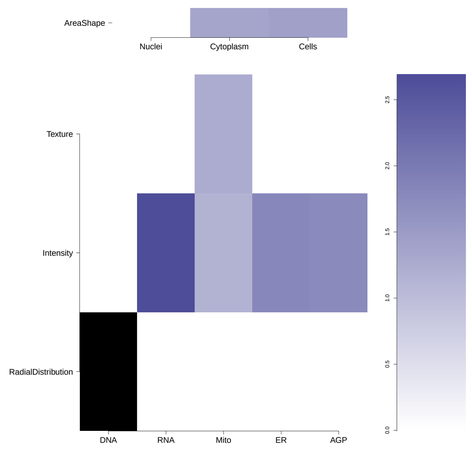
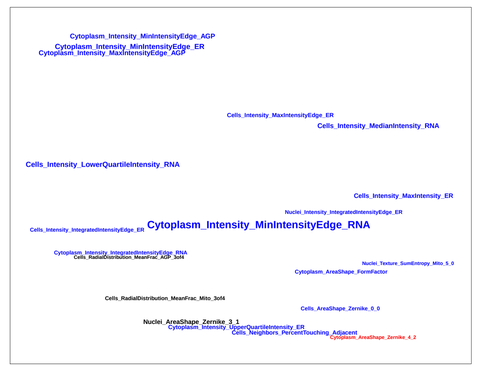
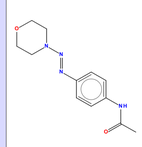
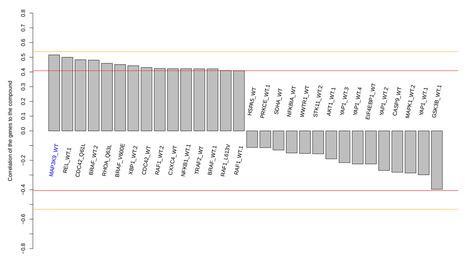
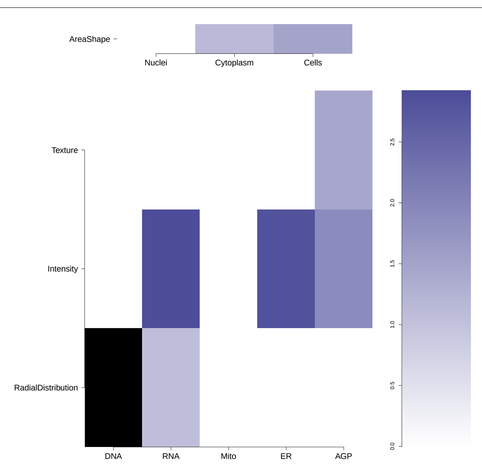
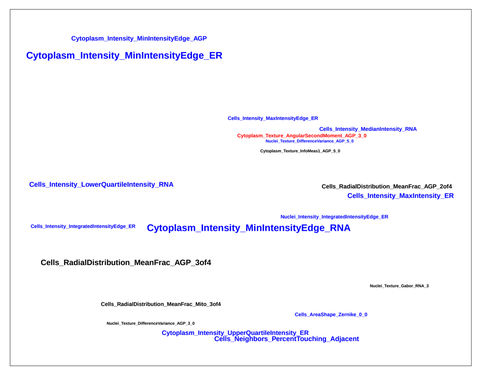
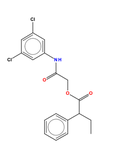
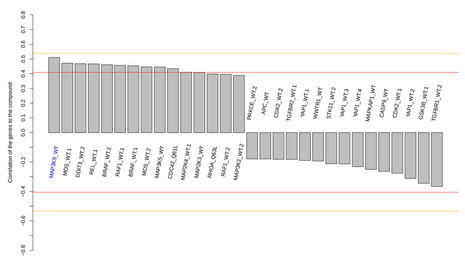
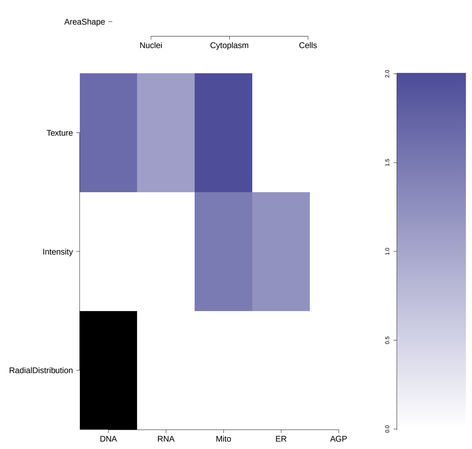
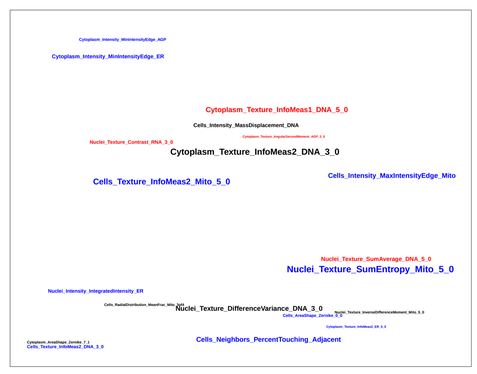
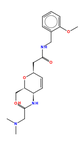
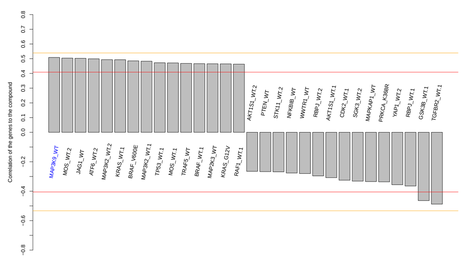
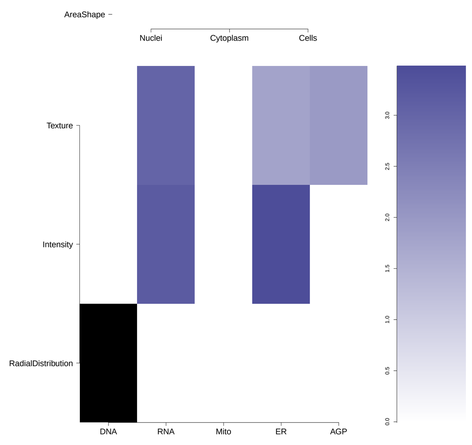
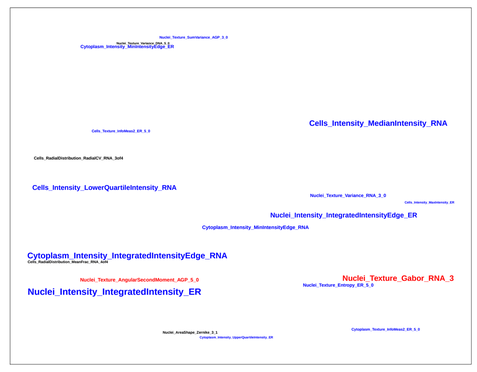


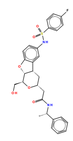
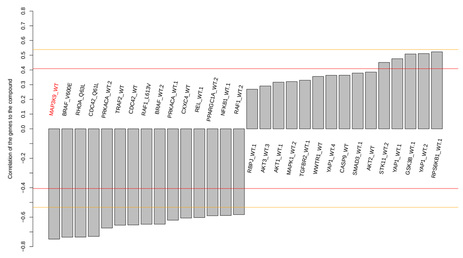
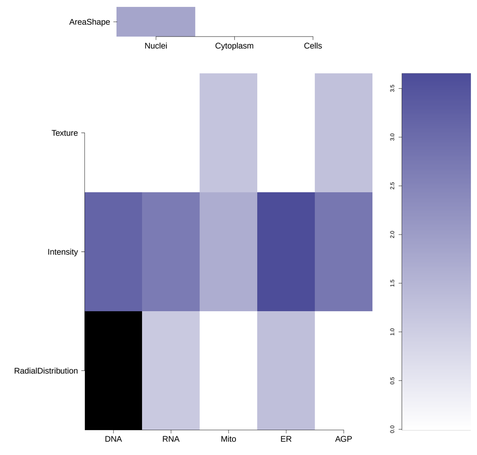
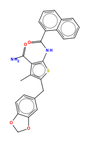
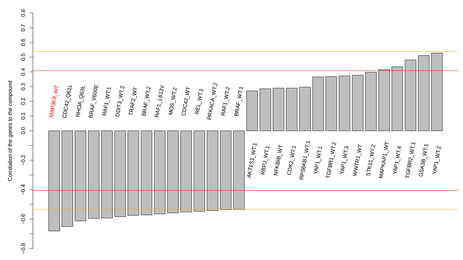
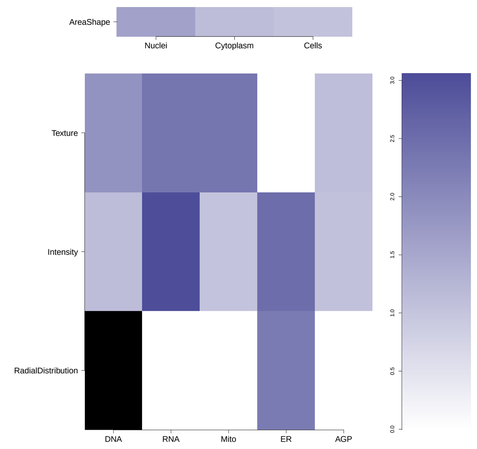
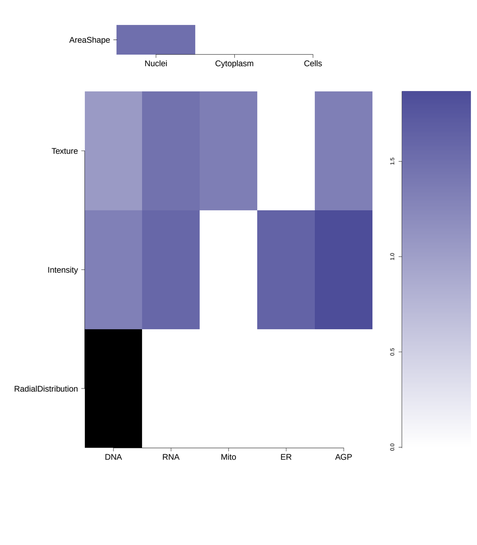
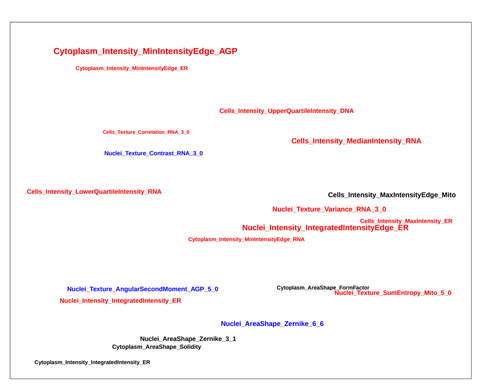
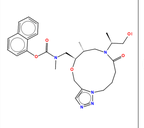
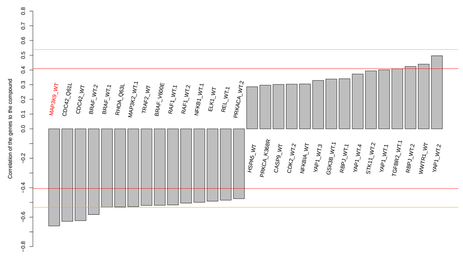
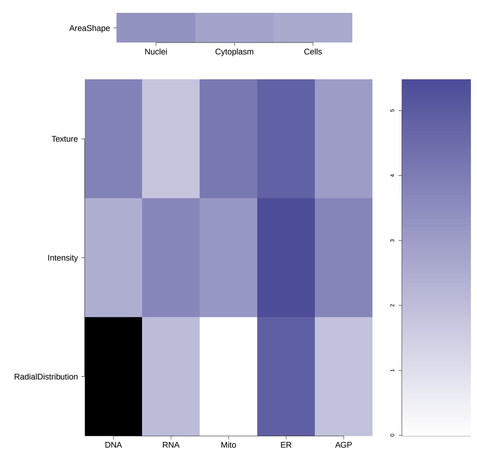
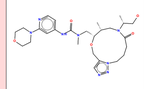
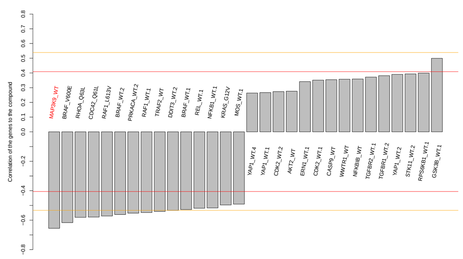
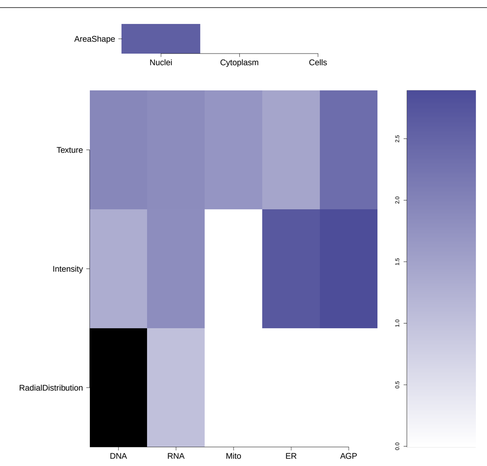
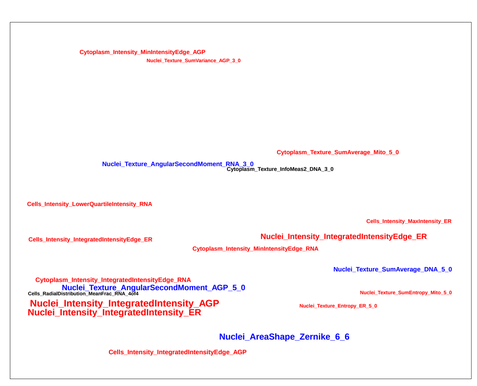
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

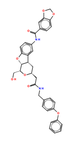
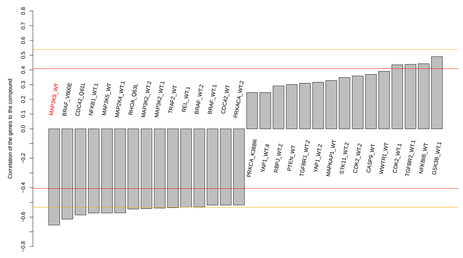
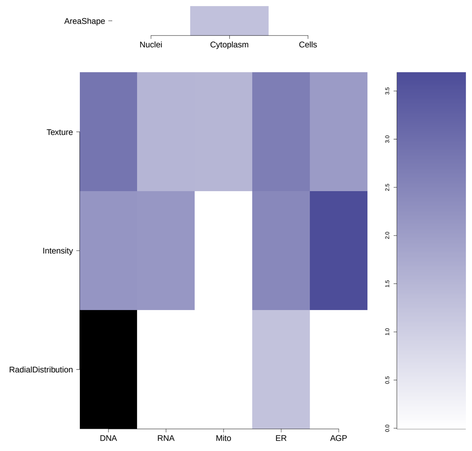
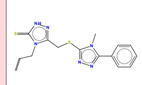
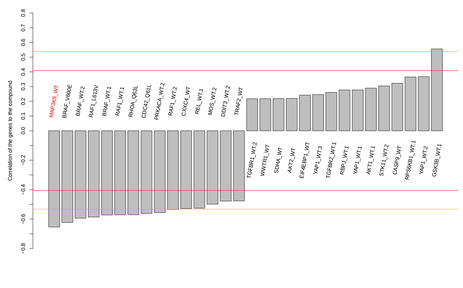
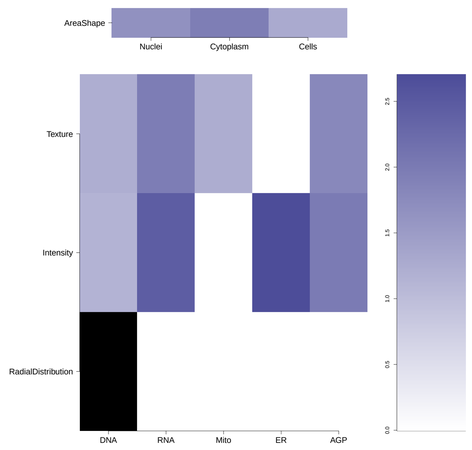
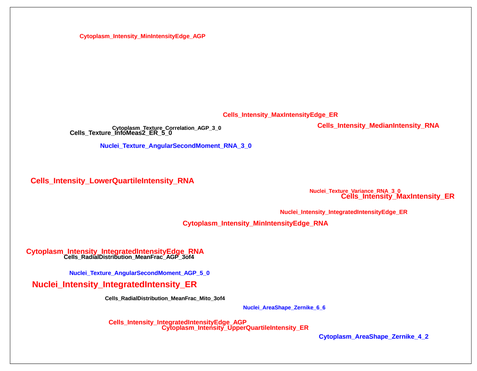
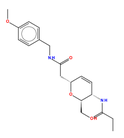
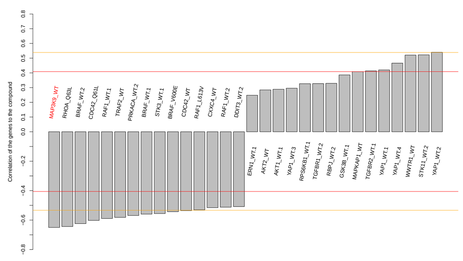
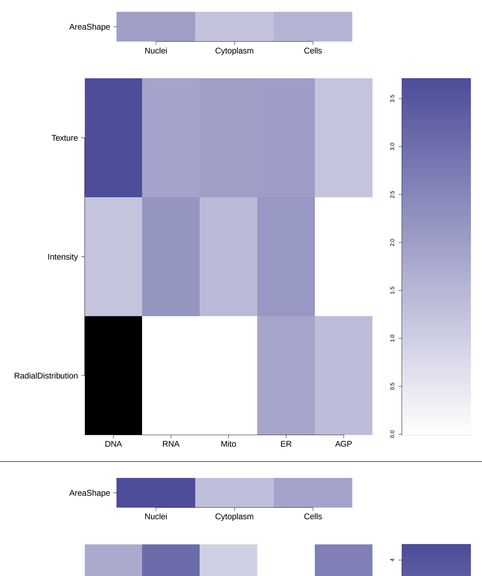
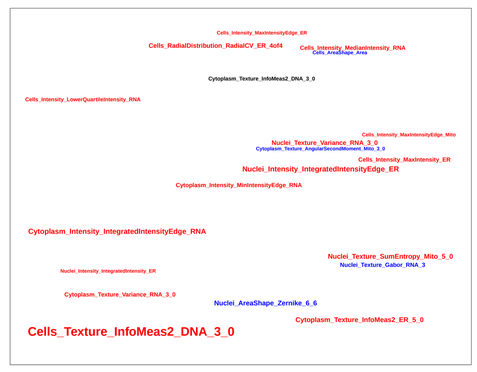
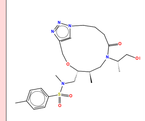
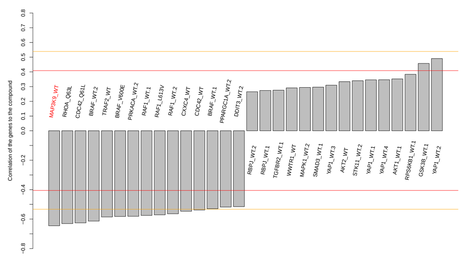
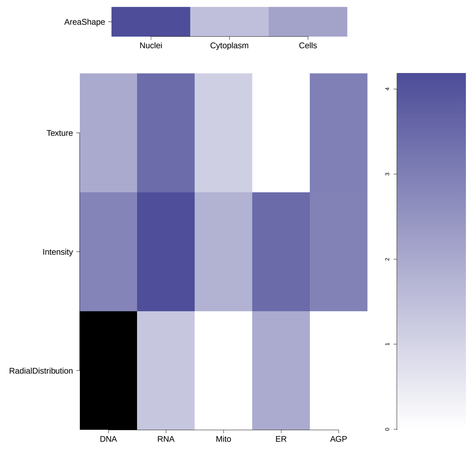
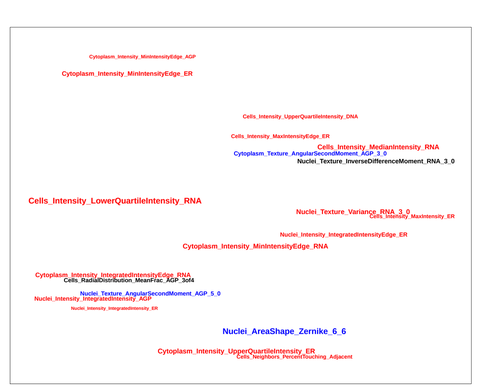
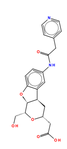
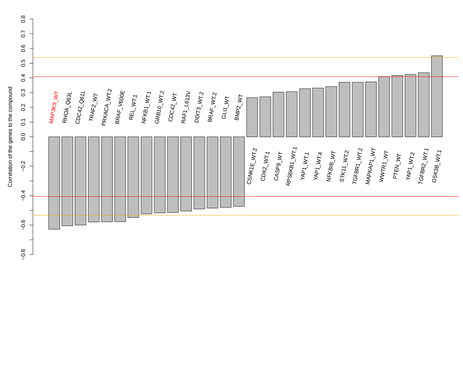
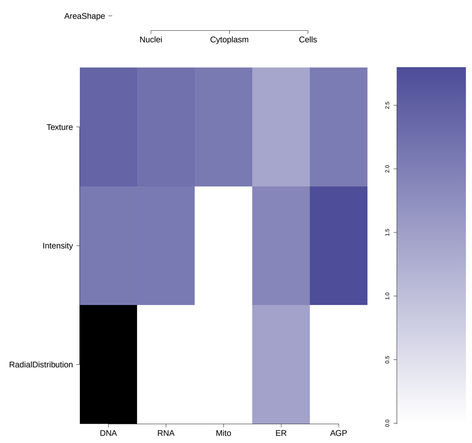


Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.51)	Correlation between compound 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-K48113109-001-01-8 PubChem CID : 44484731		0.52 (in 3 replicates)	0.61	0.762				Total number of assays tested in: 58.
BRD-K94579643-001-08-1 MLS000834504 HMS2227K07 SMR000386220 PubChem CID : 16187139		0.64 (in 4 replicates)	0.60	NA				Total number of assays tested in: 626. Active in the following assays: • Leishmania major promastigote HTS (AID 1063) • Chemical Genetic Screen to Identify Inhibitors of Mitochondrial Fusion - Confirmatory Screen (AID 1361) • Chemical Genetic Screen to Identify Inhibitors of Mitochondrial Fusion - Primary Screen (AID 1362) • Luminescence Cell-Based/Microorganism Primary HTS to Identify Inhibitors of T.Cruzi Replication (AID 1885) • Luminescence Cell-Based/Microorganism Dose Confirmation HTS to Identify Inhibitors of T.Cruzi Replication. (AID 2044) • Antagonist of Human D 1 Dopamine Receptor: qHTS (AID 504652) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834) • A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 624296) • uHTS identification of small molecule antagonists of the EBI2 receptor via a luminescent beta-arrestin assay (AID 651636) • qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979) • QFRET-based biochemical primary high throughput screening assay to identify exosite inhibitors of ADAM10. (AID 720582)
BRD-K47004627-001-05-4 T5743438 SMR000248963 AC1MB58R MLS000334205 HMS2571M17 ZINC3583291 PubChem CID : 2697826		0.71 (in 4 replicates)	0.57	NA				Total number of assays tested in: 625. Active in the following assays: • Luminescence Cell-Based Primary HTS to Identify Inhibitors of Cancer Stem Cells (AID 2717) • Primary cell-based high-throughput screening assay for identification of compounds that potentiate/activate regulator of G-protein signaling 4 (RGS4) (AID 463111) • A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 624296) • qHTS of GLP-1 Receptor Inverse Agonists (Inhibition Mode) (AID 624417)
BRD-K84480302-001-01-1 PubChem CID : 44485894		0.57 (in 3 replicates)	0.57	0.762				Total number of assays tested in: 48.
BRD-K11533282-001-05-0 MLS000520192 HMS2354L18 ZINC4901894 SMR000130605 PubChem CID : 9551600		0.76 (in 3 replicates)	0.57	NA				Total number of assays tested in: 690. Active in the following assays: • Human H69AR Lung Tumor Cell Growth Inhibition Assay - 86K Screen (AID 598) • Screening for Modulators of Post-Golgi Transport, Control Strain (AID 738) • Multiplex HTS Assay for Inhibitors of MEK Kinase PB1 Domains, specifically MEK5 MEK Kinase3 Wildtype (AID 1529) • uHTS fluorescence polarization assay for the identification of translation initiation inhibitors (eIF4H) (AID 2012) • uHTS fluorescence polarization assay for the identification of translation initiation inhibitors (PABP) (AID 2014) • Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of myeloid cell leukemia sequence 1 (MCL1) interactions with BIM-BH3 peptide. (AID 2057) • Primary biochemical high throughput screening assay to identify inhibitors of BCL2-related protein, long isoform (BCLXL). (AID 2129) • HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732) • uHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346) • Single concentration confirmation of uHTS for Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 489028) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • qHTS Assay for Inhibitors of JMJD2A-Tudor Domain (AID 504339) • Single concentration confirmation of inhibitors of Mdm2/MdmX interaction using a Full-Length Luciferase Counterscreen assay (AID 504607) • Single concentration confirmation of inhibitors of Mdm2/MdmX interaction using a Brca1/Bard1 BiLC Counterscreen assay. (AID 504668) • Inhibitors of the vitamin D receptor (VDR): qHTS (AID 504847) • Primary cell-based high-throughput screening for identification of compounds that antagonize MrgX1 receptor signaling (AID 588676) • Re-confirmation screening for identification of compounds that antagonize MrgX1 receptor signaling (AID 602420) • A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 624296) • qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504)

BRD-K94843767-001-01-6 PubChem CID : 54646105		NA (in 1 replicates)	0.55	0.762				Total number of assays tested in: 41.
BRD-K96724187-001-05-9 MLS000058578 AC1M8XYB HMS2364E03 SMR000068294 PubChem CID : 2547390		0.61 (in 4 replicates)	0.54	NA				Total number of assays tested in: 776. Active in the following assays: • qHTS Assay for Inhibitors of JMJD2A-Tudor Domain (AID 504339) • Assay for Inhibitors of the beta-Arrestin-Adaptor Protein 2 Interaction That Mediate GPCR Degradation and Recycling (AID 504490) • qHTS of D3 Dopamine Receptor Antagonist: qHTS (AID 652054) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979) • qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504)
BRD-K59799058-001-05-2 AC1LGPZX MLS000710778 HMS2629I21 STK032533 ZINC18286704 BAS 00608479 SMR000280545 ST50235592 PubChem CID : 799944		0.62 (in 4 replicates)	0.52	NA				Total number of assays tested in: 629. Active in the following assays: • qHTS for Inhibitors of Tau Fibril Formation, Thioflavin T Binding (AID 1460) • Aqueous Solubility from MLSMR Stock Solutions (AID 1996) • Plate Read Microorganism-Based Primary HTS to Identify Modulators of the AI-2 Quorum Sensing System (AID 2094) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • qHTS of Yeast-based Assay for SARS-CoV PLP (AID 485353) • qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxiredoxins (AID 485364) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)
								Total number of assays tested in: 661. Active in the following assays: • Screen for Chemicals that Inhibit the RAM Network (AID 868) • Chemical Genetic Screen to Identify Inhibitors of Mitochondrial Fusion - Primary Screen (AID 1362) • qHTS for Inhibitors of Tau Fibril Formation, Fluorescence Polarization (AID 1468) • MLPCN Streptokinase Expression Inhibition (AID 1662) • Primary cell-based high-throughput screening assay for identification of compounds that inhibit KCNQ1 potassium channels (AID 2642) • HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732) • Primary cell-based high-throughput screening assay for identification of compounds that potentiate/activate regulator of G-protein signaling 4 (RGS4) (AID 463111) • uHTS identification of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463190) • Validation (re-confirmation) assay for identification of compounds that inhibit KCNQ1 potassium channels (AID 588353) • Counter screen assay of the parental CHO cells for identification of compounds that inhibit KCNQ1 potassium channels (AID 588366) • Primary cell-based high-throughput screening for identification of compounds that inhibit/block calcium-activated chloride channels (TMEM16A) (AID 588511) • Validation assay for identification of compounds that activate the regulator of G-protein signaling 4 (RGS4) (AID 602282) • Counter screen for identification of compounds that activate the regulator of G-protein signaling 4 (RGS4): Non-induced cells with the primary screen assay (AID 602283) • uHTS identification of small molecule inhibitors of the mitochondrial permeability transition pore via an absorbance assay (AID 602449) • Single concentration confirmation of uHTS inhibitor hits of the mitochondrial permeability transition pore via a fluorescent based assay (AID 624504) • Specificity screen against KCNQ2 for identification of compounds that inhibit KCNQ1 potassium channels (AID 651746) • Specificity screen against KCNQ1/KCNE1 for identification of compounds that inhibit KCNQ1 potassium channels (AID 652147) • QFRET-based biochemical primary high throughput screening assay to identify exosite inhibitors of ADAM10. (AID 720582) • QFRET-based biochemical primary high throughput screening assay to identify exosite inhibitors of ADAM17. (AID 720648) • Fluorescence-based biochemical high throughput primary assay to identify inhibitors of phospholipase C isozymes (PLC-beta3). (AID 720704) • Counterscreen for exosite inhibitors of ADAM17: Fluorescence resonance energy transfer (FRET)-based biochemical high throughput screening assay to identify inhibitors of ADAM10 (AID 743256) • QFRET-based biochemical high throughput confirmation assay to identify exosite inhibitors of ADAM17 (AID 743257)
BRD-A41524805-001-05-3 T0507-7807 AC1MUI4A MLS000390919 HMS2601F18 SMR000259956 PubChem CID : 3618784		0.74 (in 2 replicates)	0.51	NA				
BRD-K23688566-001-01-4 PubChem CID : 54638433		0.54 (in 4 replicates)	0.51	0.762				Total number of assays tested in: 31.

BRD-K86846131-001-01-8 PubChem CID : 54645940		NA (in 1 replicates)	-0.75	0.238				Total number of assays tested in: 43.
BRD-K41585006-001-05-9 F0526-2250 MLS000696916 HMS2246B17 ZINC8683902 ZINC08683902 SMR000237340 PubChem CID : 12005862		NA (in 1 replicates)	-0.68	NA				Total number of assays tested in: 650. Active in the following assays: • qHTS Assay for Inhibitors of HPGD (15-Hydroxyprostaglandin Dehydrogenase) (AID 894) • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • HTS identification of compounds inhibiting phosphomannose isomerase (PMI) via a fluorescence intensity assay. (AID 1209) • qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490) • Luminescence-based primary cell-based high throughput screening assay to identify activators of the Aryl Hydrocarbon Receptor (AHR) (AID 2796) • Luminescence-based cell-based high throughput confirmation assay for activators of the Aryl Hydrocarbon Receptor (AHR) (AID 2845) • Counterscreen for activators of the Aryl Hydrocarbon Receptor (AHR): luminescence-based cell-based high throughput screening assay to identify activators of the Pregnane X Receptor (PXR) (AID 434939) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • uHTS identification of small molecule inhibitors of Plasmodium falciparum Glucose-6-phosphate dehydrogenase via a fluorescence intensity assay (AID 504690) • Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human M1 muscarinic receptor (CHRM1) (AID 588852) • qHTS for Inhibitors of the vitamin D receptor (VDR): Hit Validation in Primary Screen (AID 602199) • qHTS for Inhibitors of the vitamin D receptor (VDR): Hit Validation using a Fluorescein Assay (AID 602200) • qHTS for Inhibitors of the vitamin D receptor (VDR): Hit Validation using a Texas Red Assay (AID 602201) • qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504)
BRD-K32732553-001-05-5 SMR000154968 MLS000569346 AC1M4FVJ BDBM61026 HMS2288M19 KUC110285N KSC-265-38 PB67745830 PubChem CID : 2306986		NA (in 1 replicates)	-0.66	NA				• Profiling compound fluorescence on GSH Beads with 488 nm excitation and 530 nm emission (AID 1776) • MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732) • Luminescence-based primary cell-based high throughput screening assay to identify activators of the Aryl Hydrocarbon Receptor (AHR) (AID 2796) • TR-FRET-based biochemical high throughput dose response assay to identify NR2E3 inverse agonists (AID 463256) • Counterscreen for NR2E3 inverse agonists: TR-FRET-based biochemical high throughput dose response assay to identify inverse agonists of the interaction between peroxisome proliferator-activated receptor gamma (PPARg) and nuclear receptor co-repressor 2 (NCOR2) (AID 463257) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • Screen for inhibitors of the SWI/SNF chromatin remodeling complex (esBAF) in mouse embryonic stem cells with Luciferase reporter assay Measured in Cell-Based System Using Plate Reader - 2141-01_Inhibitor_SinglePoint_HTS_Activity (AID 602393) • Cytotoxicity screening for potential Inhibitors of Bacterial Capsule Biogenesis (5) (AID 602414) • Screen for inhibitors of the SWI/SNF chromatin remodeling complex (esBAF) in mouse embryonic stem cells with Luciferase reporter assay Measured in Cell-Based System Using Plate Reader - 2141-01_Inhibitor_Dose_CherryPick_Activity (AID 651717)
BRD-K19016577-001-02-9 MLS003129370 SMR001833816 PubChem CID : 44505406		0.76 (in 3 replicates)	-0.66	0.238				Total number of assays tested in: 233. Active in the following assays: • HTS for the detection of C. neoformans cell lysis via adenylate kinase (AK) release Measured in Microorganism System Using Plate Reader - 2162-01_Inhibitor_SinglePoint_HTS_Activity (AID 651654)
BRD-K12682252-001-02-7 MLS003130251 SMR001834697 PubChem CID : 44505424		0.81 (in 3 replicates)	-0.66	0.841				Total number of assays tested in: 218.

BRD-K67862512-001-01-7 PubChem CID : 54645919		NA (in 1 replicates)	-0.65	0.105				Total number of assays tested in: 50. Active in the following assays: • Inhibition of T.cruzi proliferation in culture Measured in Cell-Based System Using Plate Reader - 2138-01_Inhibitor_SinglePoint_HTS_Activity (AID 624255) • NIH/3T3 (mouse embryonic fibroblast) toxicity Measured in Cell-Based System Using Plate Reader - 2138-02_Inhibitor_SinglePoint_CherryPick_Activity (AID 651742) • NIH/3T3 (mouse embryonic fibroblast) toxicity Measured in Cell-Based System Using Plate Reader - 2138-02_Inhibitor_SinglePoint_CherryPick_Activity_Set2 (AID 651744) • Bursicon-induced LGR2 mediated cAMP production in LGR-2/CRE6x-Luciferase co-transfected HEK293 cells Inhibition (AID 720647) • Bursicon-induced LGR2 mediated cAMP production in LGR-2/CRE6x-Luciferase co-transfected HEK293 cells Inhibition Measured in Cell-Based System Using Plate Reader - 7011-01_Antagonist_Dose_CherryPick_Activity_Set2 (AID 743343) • A549 Cytotoxicity Assay Measured in Cell-Based System Using Plate Reader - 7071-06_Antagonist_Dose_CherryPick_Activity (AID 743412) • HepG2 Cytotoxicity Assay Measured in Cell-Based System Using Plate Reader - 7071-02_Antagonist_Dose_CherryPick_Activity (AID 743416)
BRD-K40843157-001-04-3 AC1MDOY0 MLS000860671 HMS1525F13 HMS2803K07 HTS08987 ZINC13658631 IDI1 032113 SMR000458755 PubChem CID : 2814542		NA (in 1 replicates)	-0.65	NA				Total number of assays tested in: 582. Active in the following assays: • QFRET-based counterscreen for PFM18AAP inhibitors: biochemical high throughput screening assay to identify inhibitors of the Cathepsin L proteinase (CTSL1). (AID 1906) • Aqueous Solubility from MLSMR Stock Solutions (AID 1996) • 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 Inhibitors of JMJD2A-Tudor Domain (AID 504339)
BRD-K24873600-001-01-9 PubChem CID : 54641067		NA (in 1 replicates)	-0.65	NA				Total number of assays tested in: 38.
BRD-K86770334-001-02-3 MLS003129459 SMR001833905 PubChem CID : 44505325		0.64 (in 3 replicates)	-0.65	0.238				Total number of assays tested in: 226. Active in the following assays: • Fluorescence-based cell-based primary high throughput screening assay to identify positive allosteric modulators (PAMs) of the human M1 muscarinic receptor (CHRM1). (AID 588819)
BRD-K83859448-001-01-2 PubChem CID : 54646038		NA (in 1 replicates)	-0.63	0.238				Total number of assays tested in: 45. 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)