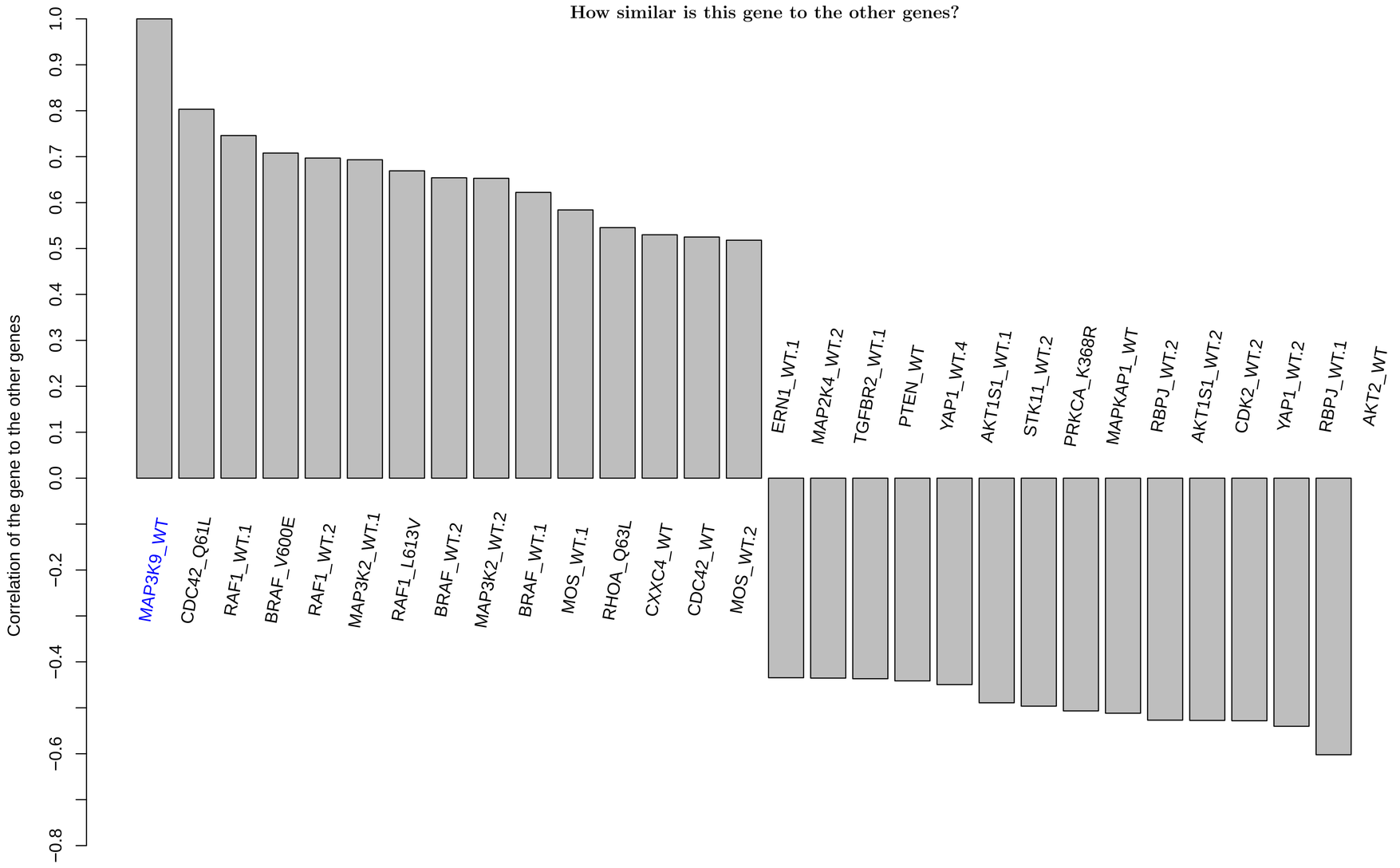
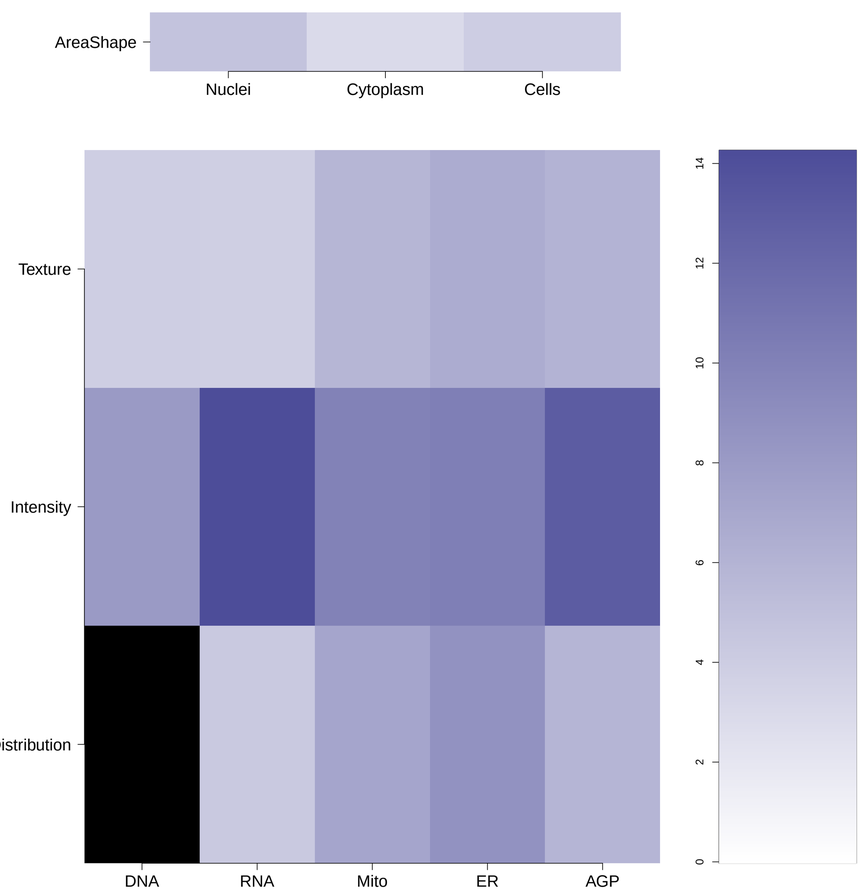
MAP3K9_WT - in Canonical MAPK

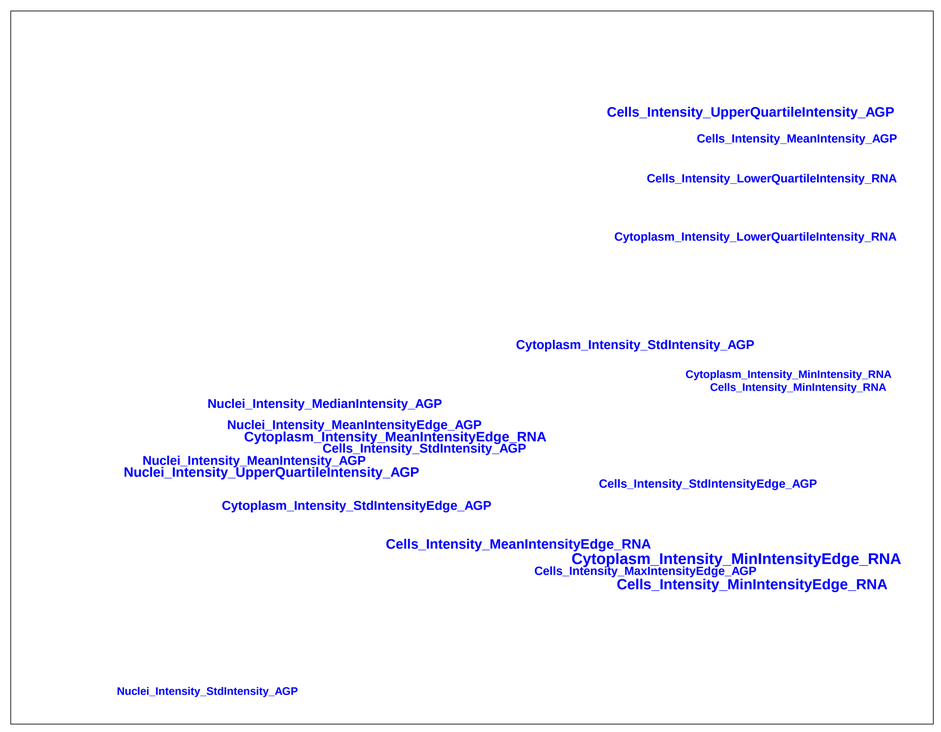
How similar is this gene to the other genes?

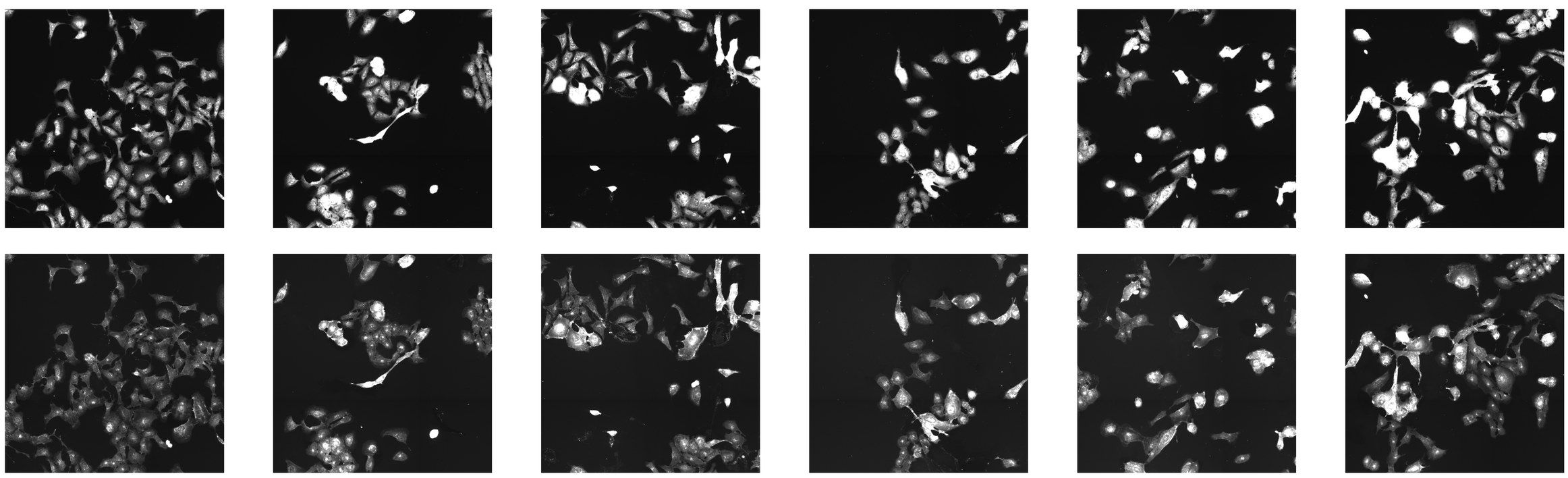


What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

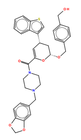
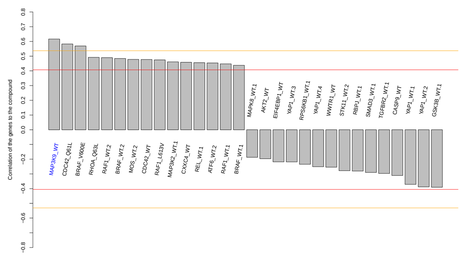
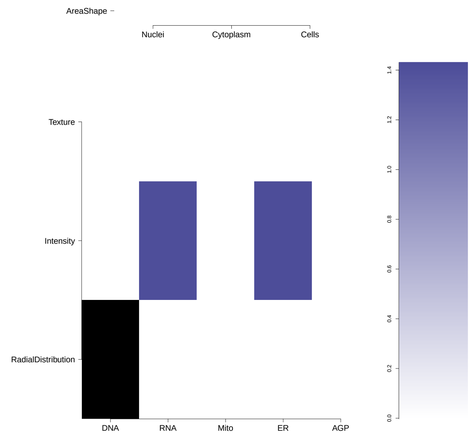
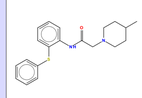
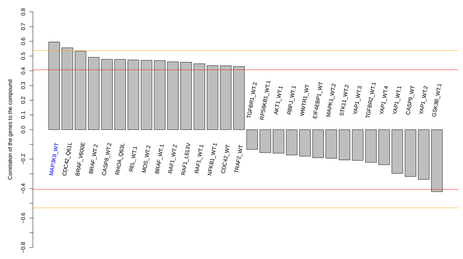
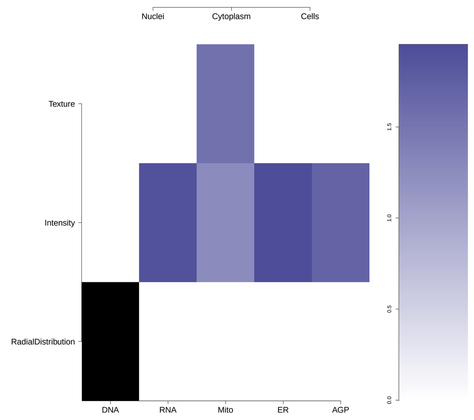
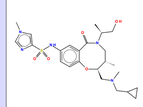
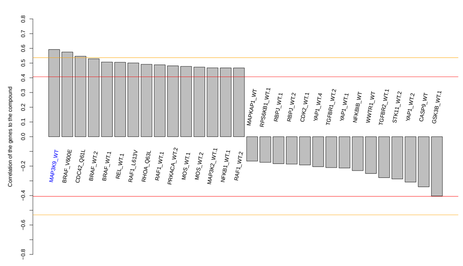
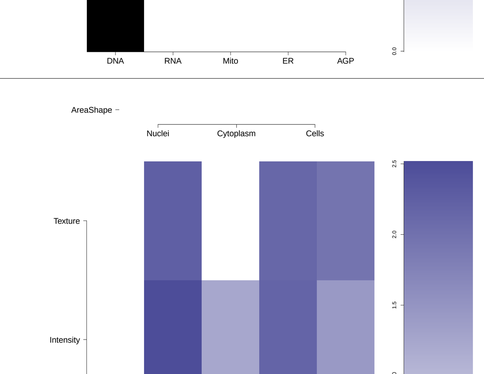
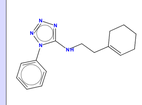
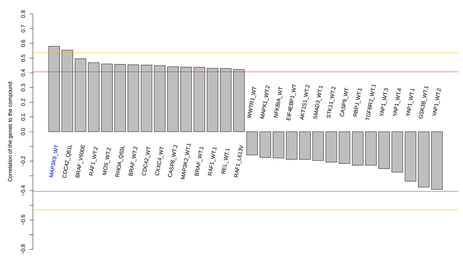
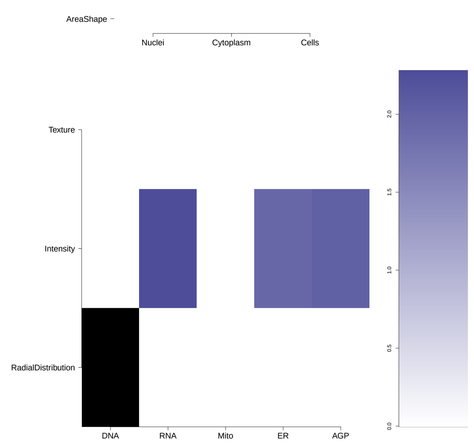
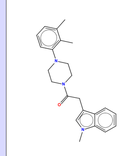
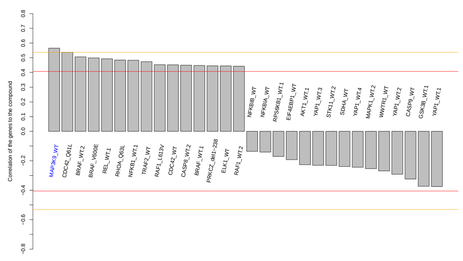
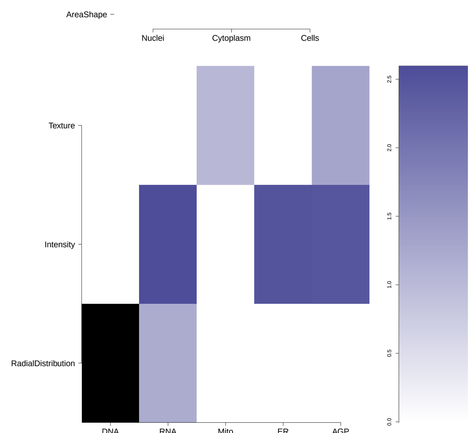
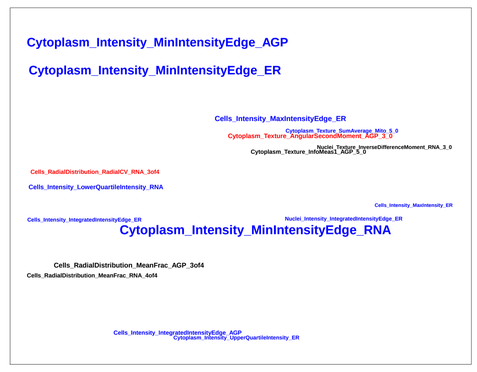


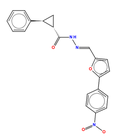
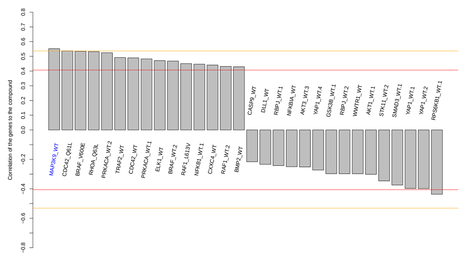
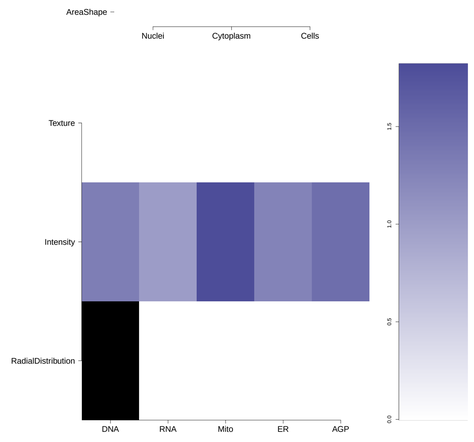
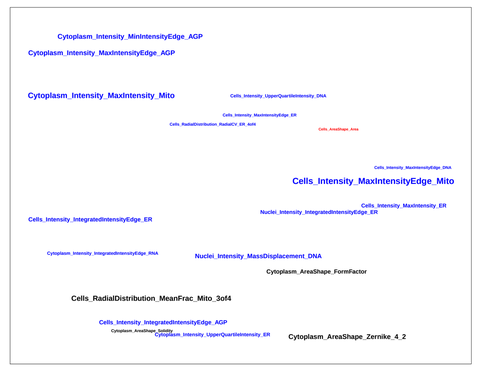
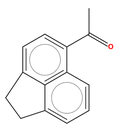
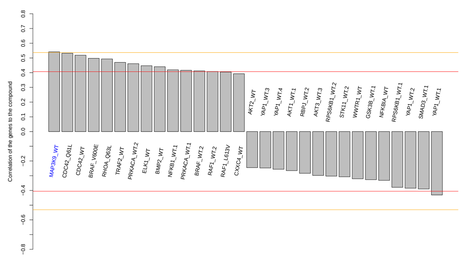
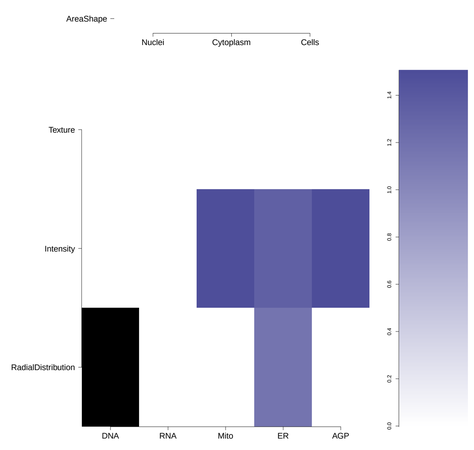
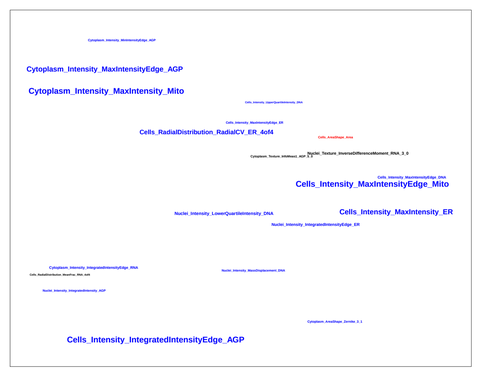
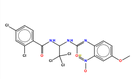
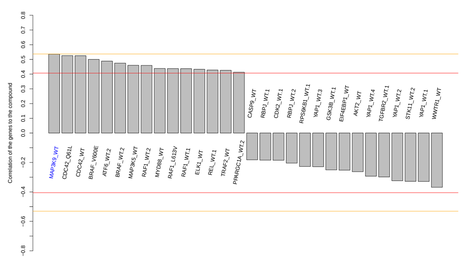
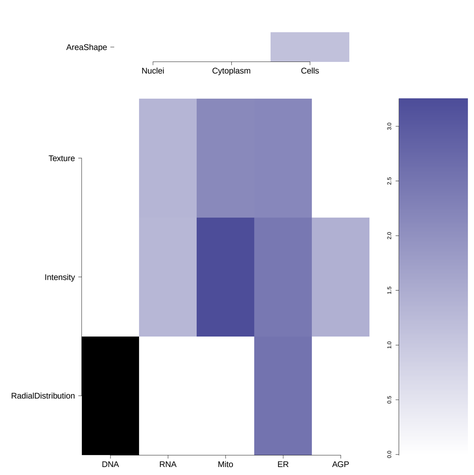
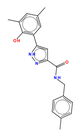
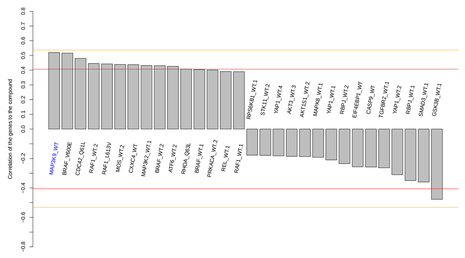
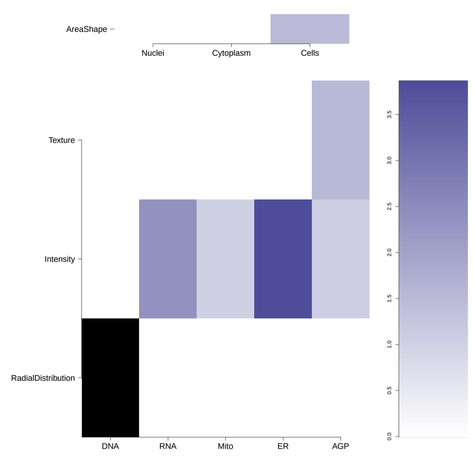
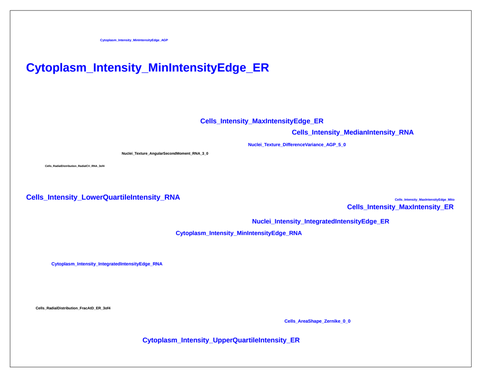
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

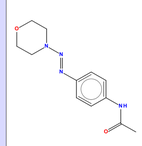
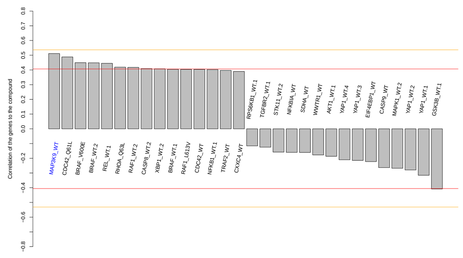
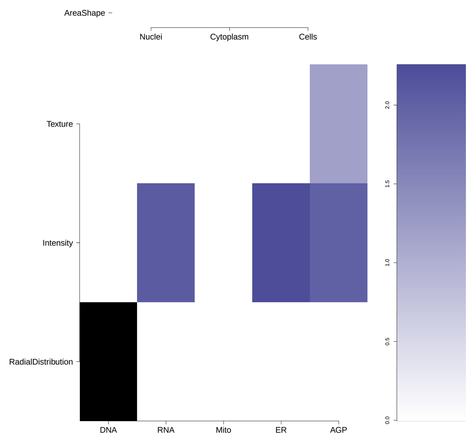
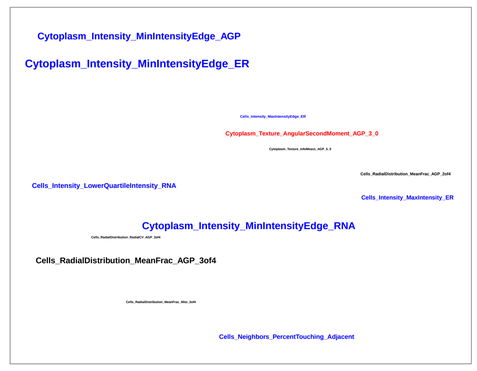
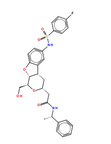
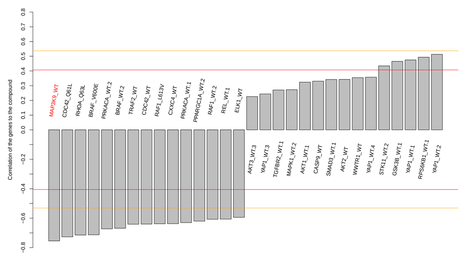
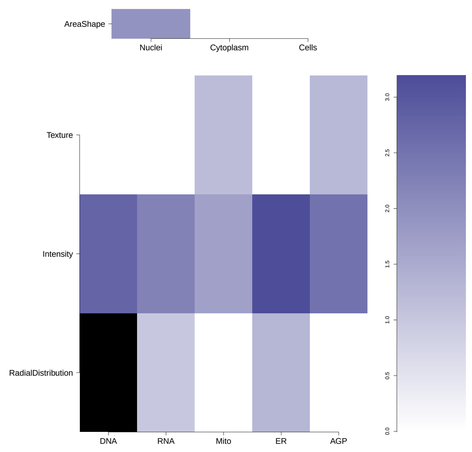
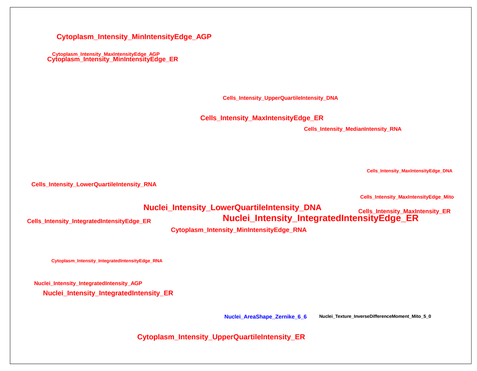
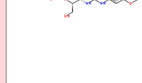
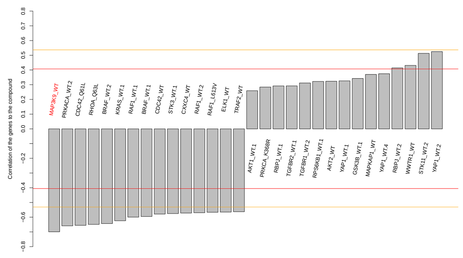
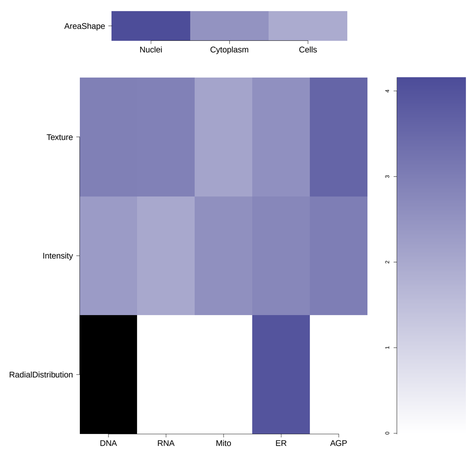
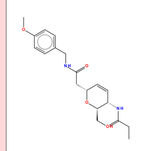
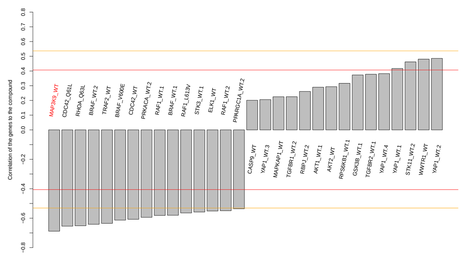
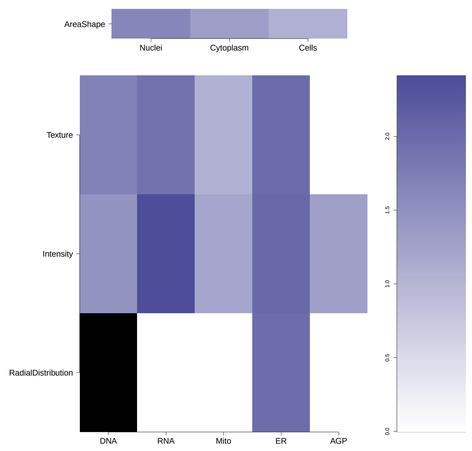
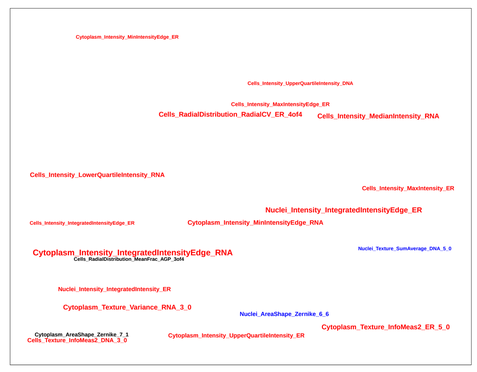
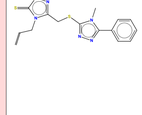
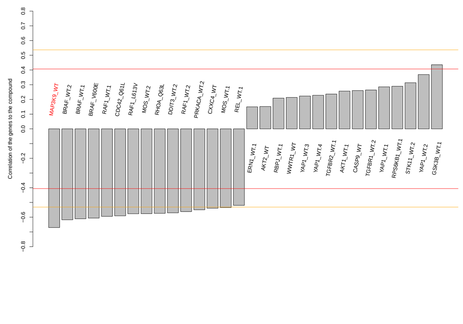
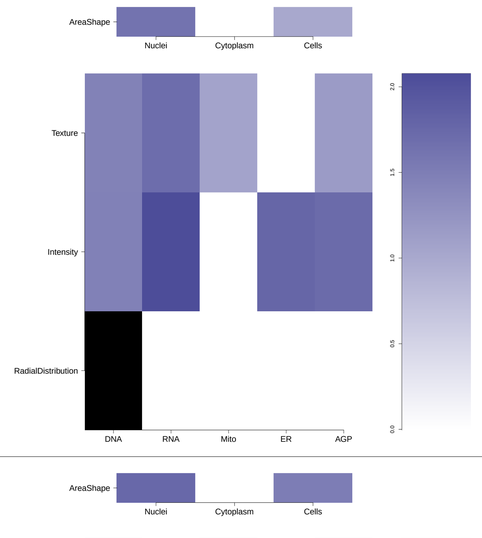
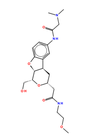
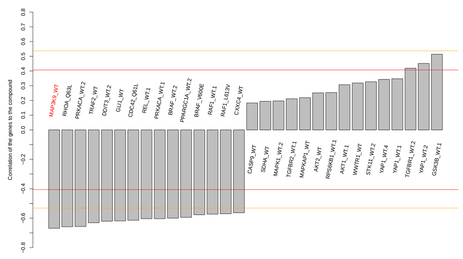
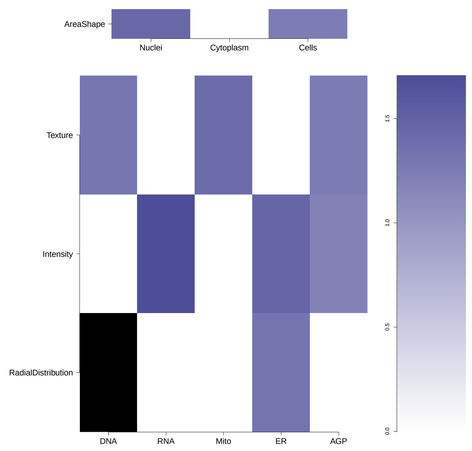
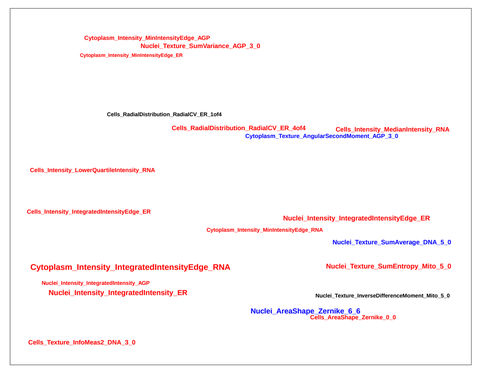
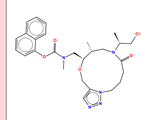
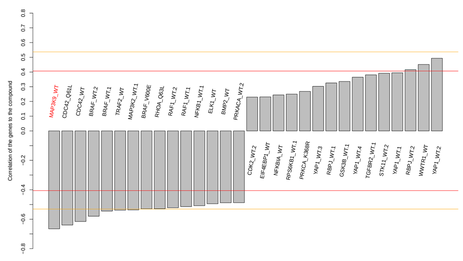
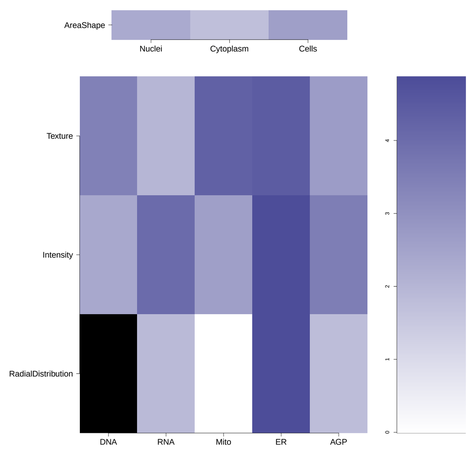
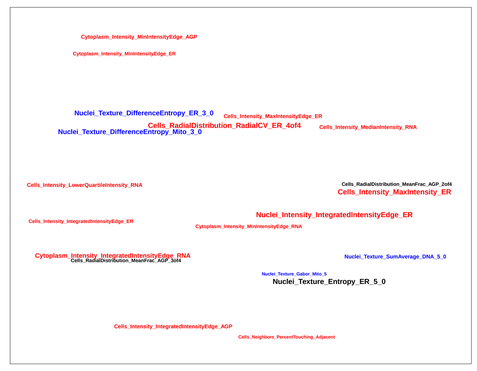


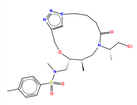
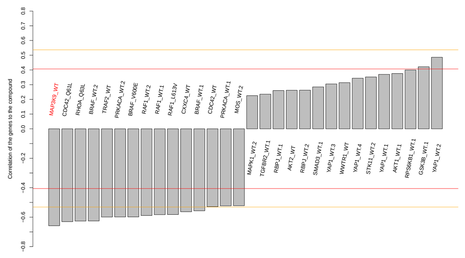
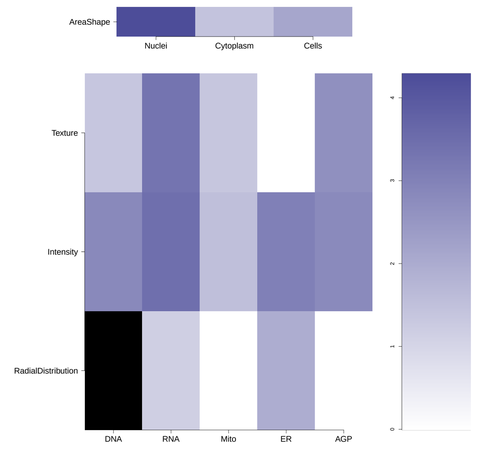
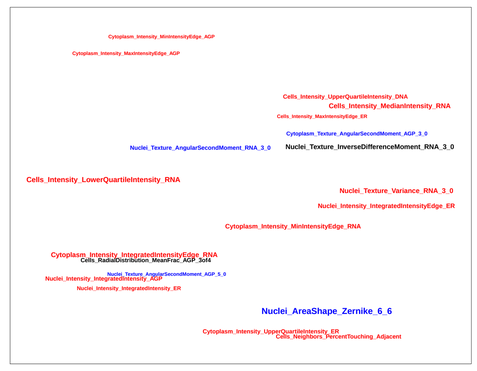
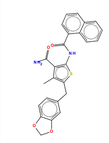
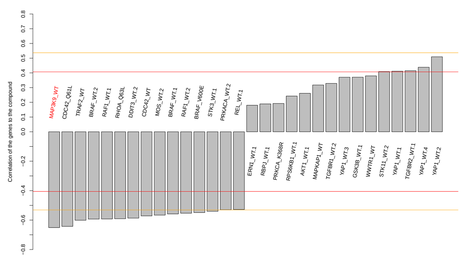
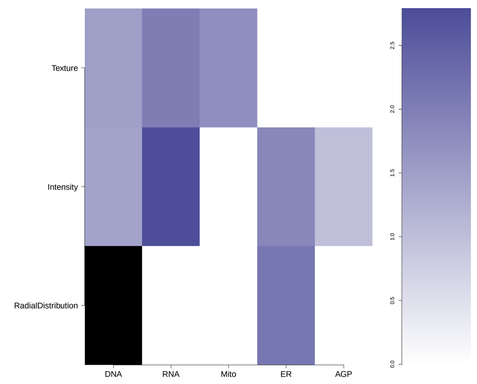
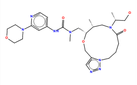
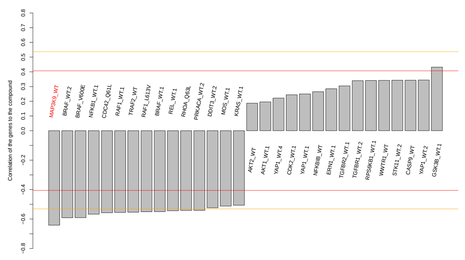
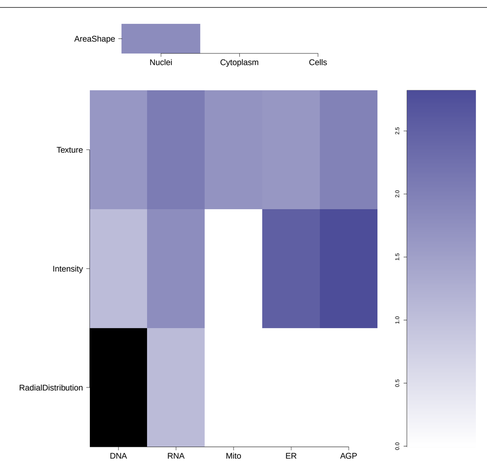
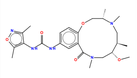
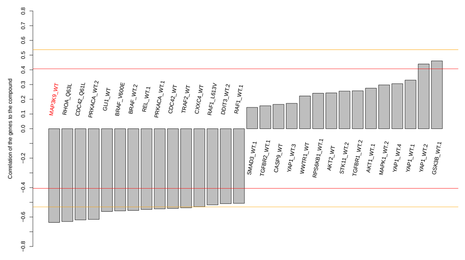
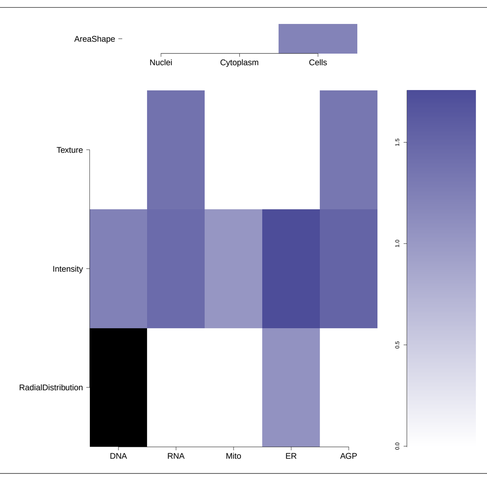
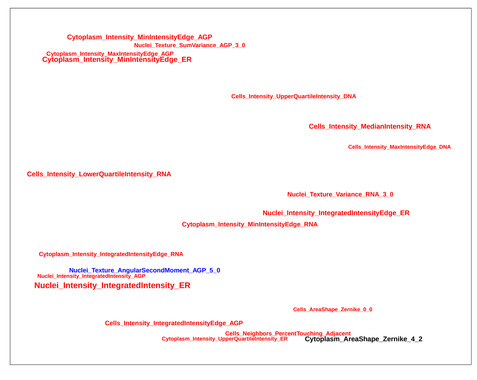


Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.52)	Correlation between compound 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-K94579643-001-08-1 MLS000834504 HMS2227K07 SMR000386220 PubChem CID : 16187139		0.65 (in 4 replicates)	0.62	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		0.78 (in 4 replicates)	0.60	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		0.59 (in 3 replicates)	0.59	0.762				Total number of assays tested in: 48.
BRD-K96724187-001-05-9 MLS000058578 AC1M8XYB HMS2364E03 SMR000068294 PubChem CID : 2547390		0.67 (in 4 replicates)	0.58	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-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-K35933397-001-05-6 MLS000332051 SMR000221450 AC1OBZYA STK585535 ZINC15962006 PubChem CID : 6890484		0.53 (in 4 replicates)	0.55	NA				Total number of assays tested in: 562. Active in the following assays: • Primary HTS Assay for S1P3 Antagonists (AID 485) • Confirmation cell-based assay to identify antagonists of the Sphingosine 1-Phosphate Receptor 3 (S1P3) (AID 1429) • Counterscreen assay for S1P3 antagonists: Dose response cell-based high throughput screening assay to identify antagonists of the 5-Hydroxytryptamine Receptor Subtype 1E (5HT1E) (AID 1516) • Dose response cell-based high throughput screening assay for antagonists of the Sphingosine 1-Phosphate Receptor 3 (S1P3) (AID 1518) • QFRET-based primary biochemical high throughput screening assay to identify inhibitors of the Plasmodium falciparum M18 Aspartyl Aminopeptidase (PFM18AAP). (AID 1822) • Second counter screen for identification of compounds that inhibit regulator of G-protein signaling 4 (RGS4): Non-induced cells with the primary screen assay without carbachol activation (AID 493001) • qHTS for Inhibitors of Vif-A3F Interactions: qHTS (AID 602313) • A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 624296) • A quantitative high throughput screen for small molecules that induce DNA re-replication in SW480 colon adenocarcinoma cells. (AID 624297) • Flow Cytometric HTS Screening for Inhibitors of Lytic Granule Exocytosis with MLPCN Compound Library (AID 651702)
BRD-K72626323-001-05-9 10047-18-4 AC1L3YZR AC1Q1JVB AC1Q5ENB AC1Q1JJ3 MLS000554889 CTK3J8973 BB SC-0128 HMS2318K12 ZINC970398 AR-1G6957 BBL010292 NSC142100 STK366525 ZINC00970398 NE35979 NSC 142100 NSC-142100 PL003322 SMR000147006 ST073903 KB-334533 EN300-23485 T5483173 PubChem CID : 97668		0.62 (in 4 replicates)	0.54	NA				Total number of assays tested in: 693. Active in the following assays: • HTS Assay for Activators of Cytochrome P450 2A9 (AID 1024) • uHTS identification of inhibitors of cullin neddylation in a TR-FRET assay (AID 651699)
BRD-A51245852-001-06-2 SMR000137086 MLS000532145 AC1MD5Y3 Ambcb5159076 MLS001384918 BDBM57136 HMS2496J22 PubChem CID : 2831426		0.55 (in 3 replicates)	0.54	NA				Total number of assays tested in: 702. Active in the following assays: • Modulators of Post-Golgi Transport (AID 739) • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • 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) • HTS identification of compounds inhibiting the binding of CD11b/CD18 to fibrinogen via a luminescence assay. (AID 1497) • 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) • Absorbance Microorganism-Based Dose Response HTS to Identify Inhibitors of Streptokinase Expression (AID 1914) • Inhibitors of Cav3 T-type Calcium Channels: Primary Screen (AID 449739) • High-content cell-based screening for modulators of autophagy (AID 463193) • uHTS identification of microRNA-mediated mRNA deadenylation inhibitors by fluoresence polarization assay (AID 588489) • qHTS for Inhibitors of TGF-b (AID 588855) • uHTS identification of CXCR6 Inhibitors in a B-arrestin luminescence assay (AID 602244) • uHTS identification of small molecule inhibitors of the mitochondrial permeability transition pore via an absorbance assay (AID 602449) • Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human cholinergic receptor, muscarinic 5 (CHRM5) (AID 624040) • qHTS of GLP-1 Receptor Inverse Agonists (Inhibition Mode) (AID 624417) • Single concentration confirmation of uHTS inhibitor hits of the mitochondrial permeability transition pore via a fluorescent based assay (AID 624504) • 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) • 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) • qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279)
BRD-K20234911-001-05-3 AC1O0RHJ MLS000779194 HMS2744J08 SMR000415887 PubChem CID : 6100133		0.65 (in 2 replicates)	0.52	NA				Total number of assays tested in: 566. Active in the following assays: • 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)

BRD-K59799058-001-05-2 AC1LGPZX MLS000710778 HMS2629I21 STK032533 ZINC18286704 BAS 00608479 SMR000280545 ST50235592 PubChem CID : 799944		0.66 (in 4 replicates)	0.51	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)
BRD-K86846131-001-01-8 PubChem CID : 54645940		NA (in 1 replicates)	-0.75	0.238				Total number of assays tested in: 43.
BRD-K32797868-001-01-7 PubChem CID : 54641357		NA (in 1 replicates)	-0.70	NA				Total number of assays tested in: 43.
BRD-K24873600-001-01-9 PubChem CID : 54641067		NA (in 1 replicates)	-0.69	NA				Total number of assays tested in: 38.
BRD-K40843157-001-04-3 AC1MDOY0 MLS000860671 HMS1525F13 HMS2803K07 HTS08987 ZINC13658631 IDI1 032113 SMR000458755 PubChem CID : 2814542		NA (in 1 replicates)	-0.67	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-K42959654-001-01-9 PubChem CID : 54646040		NA (in 1 replicates)	-0.67	0.238				Total number of assays tested in: 42.
BRD-K19016577-001-02-9 MLS003129370 SMR001833816 PubChem CID : 44505406		0.79 (in 3 replicates)	-0.67	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-K86770334-001-02-3 MLS003129459 SMR001833905 PubChem CID : 44505325		0.66 (in 3 replicates)	-0.66	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-K41585006-001-05-9 F0526-2250 MLS000696916 HMS2246B17 ZINC8683902 ZINC08683902 SMR000237340 PubChem CID : 12005862		NA (in 1 replicates)	-0.65	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-K12682252-001-02-7 MLS003130251 SMR001834697 PubChem CID : 44505424		0.81 (in 3 replicates)	-0.64	0.841				Total number of assays tested in: 218.
BRD-K33956247-001-01-0 PubChem CID : 54632769		0.63 (in 4 replicates)	-0.64	0.238				Total number of assays tested in: 35.