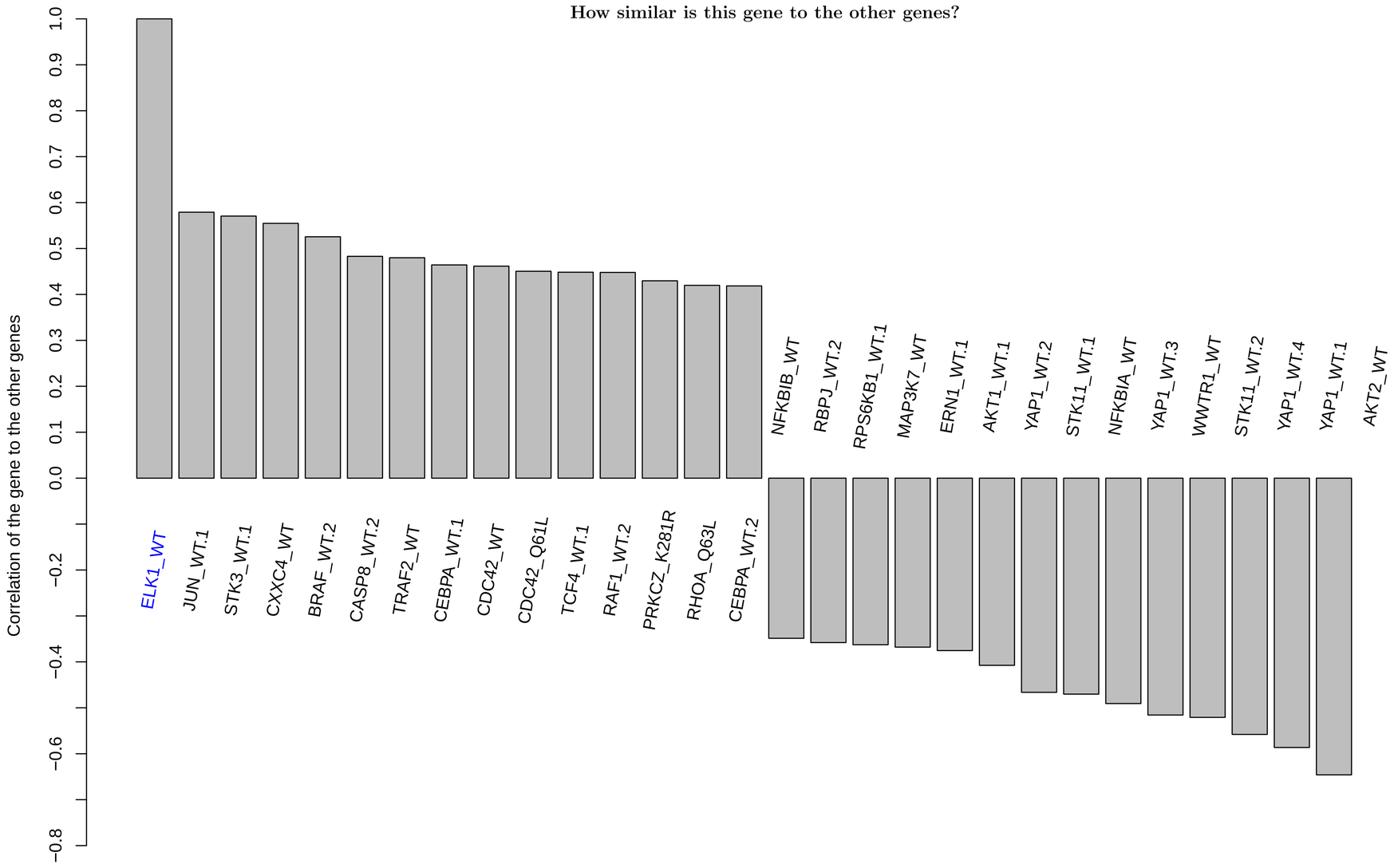
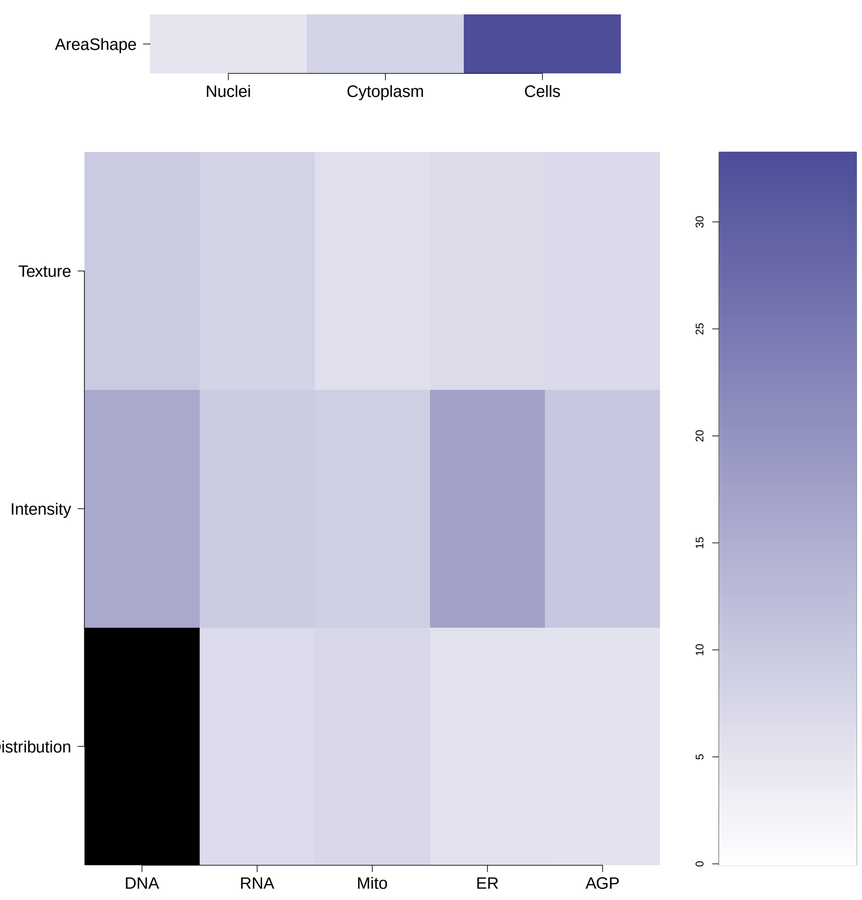
ELK1_WT - in Canonical MAPK

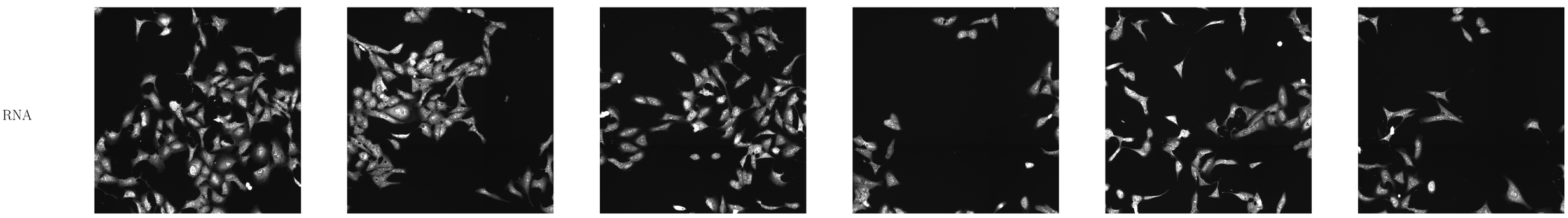
How similar is this gene to the other genes?



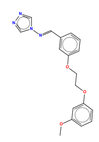
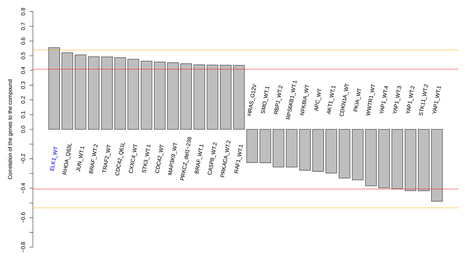
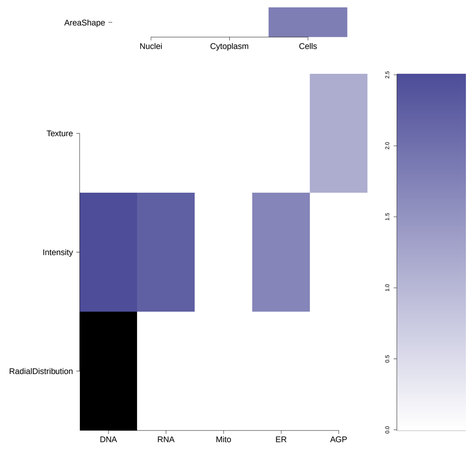
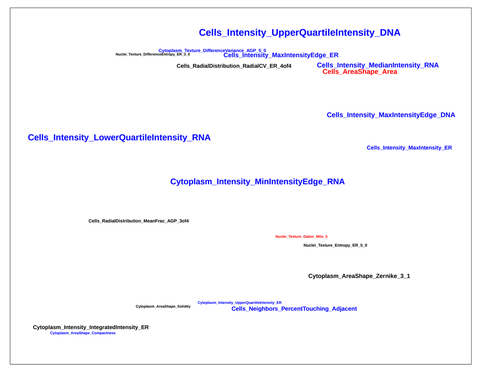
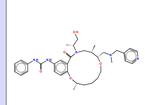
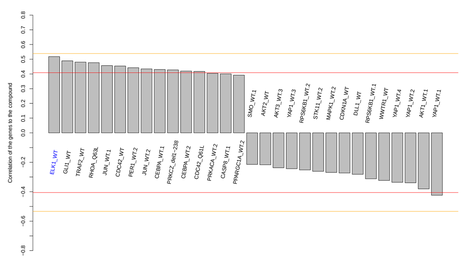
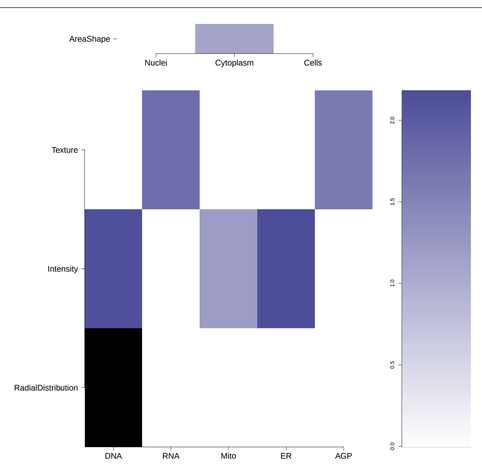
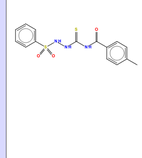
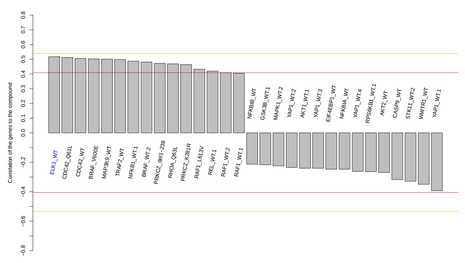
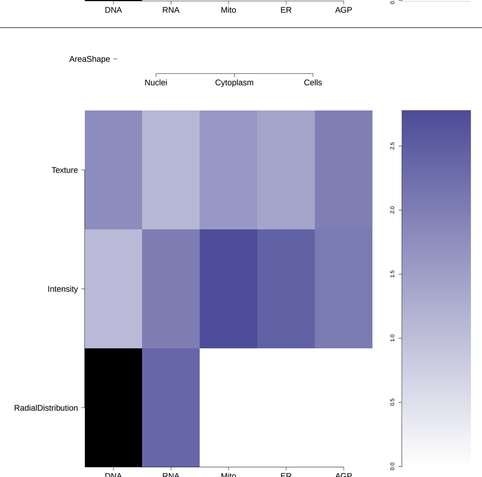
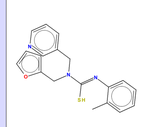
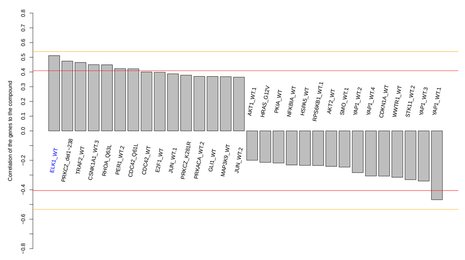
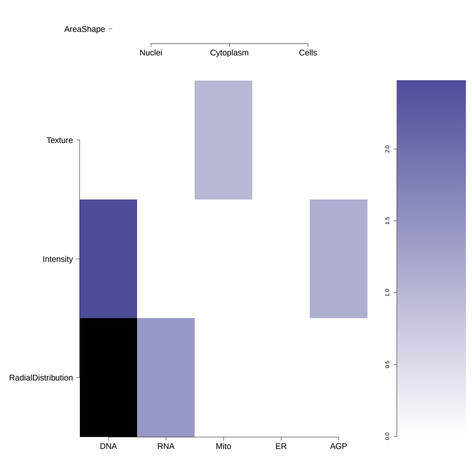
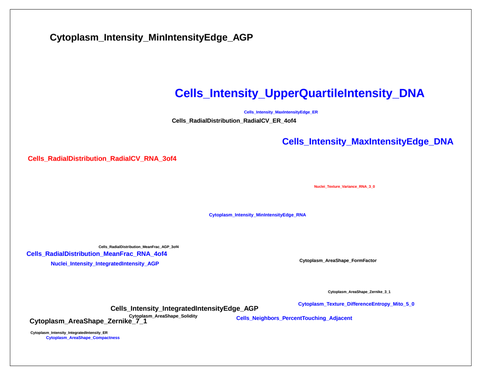
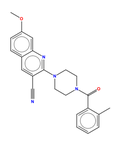
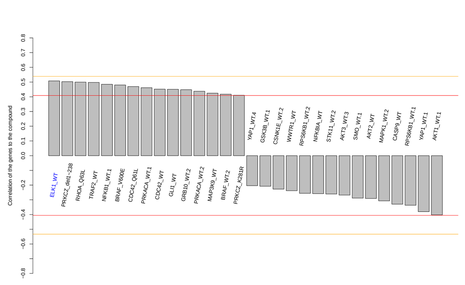
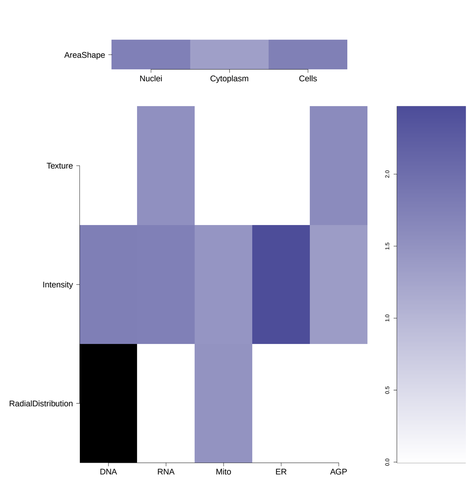
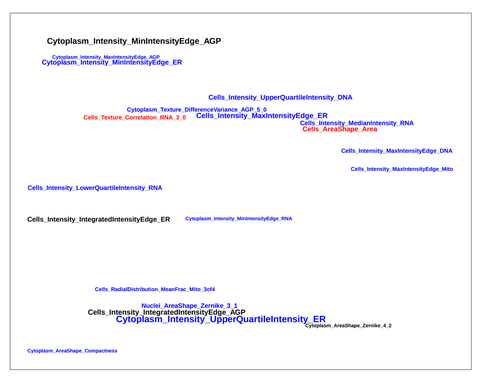
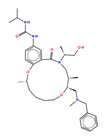
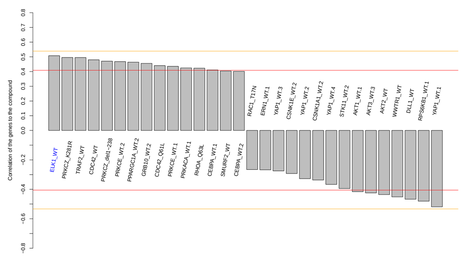
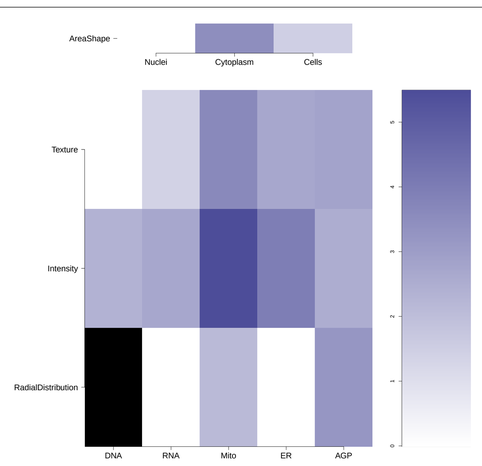
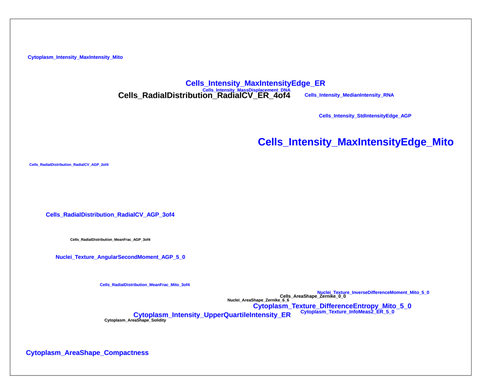
What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

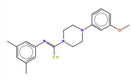
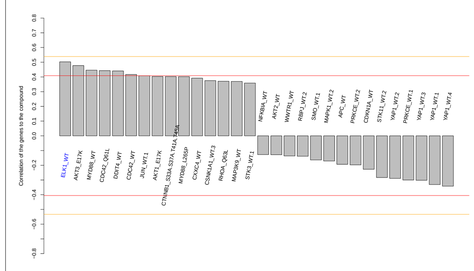
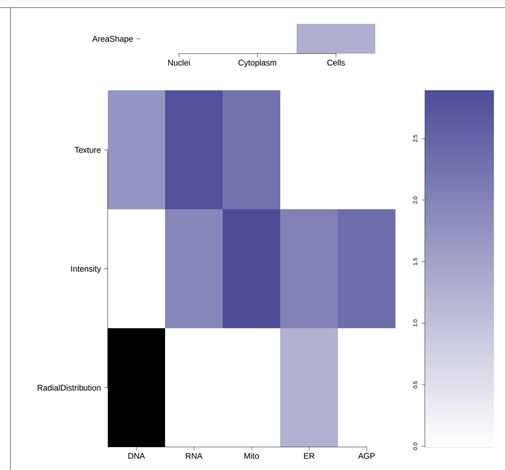
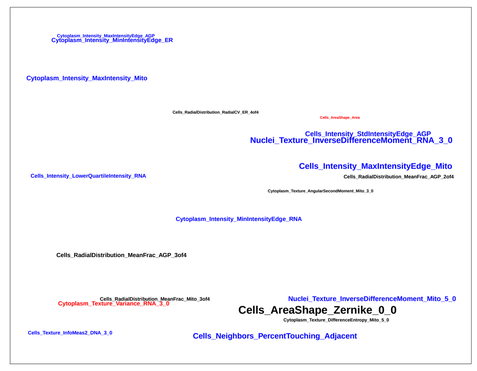
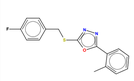
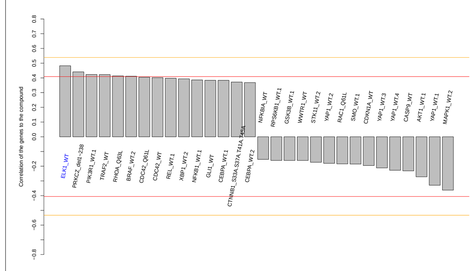
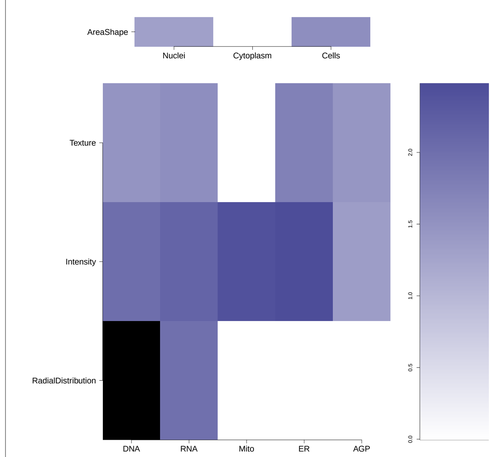
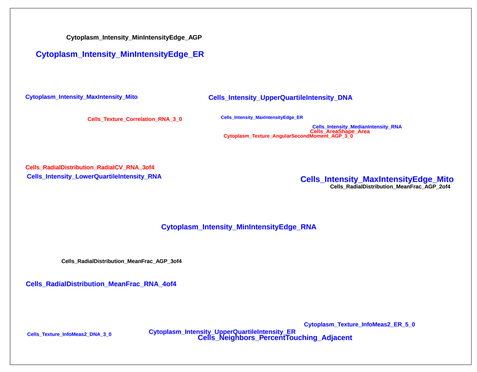
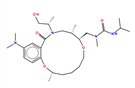
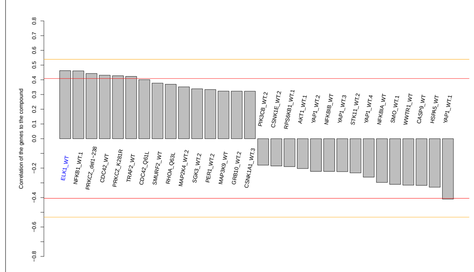
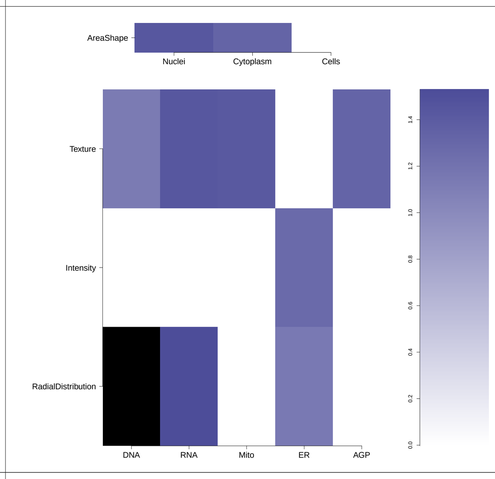
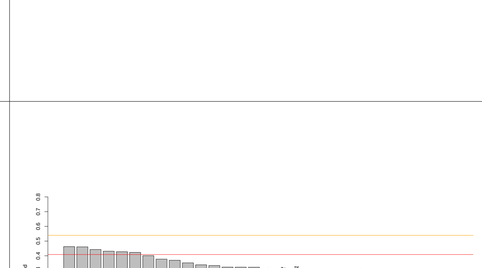
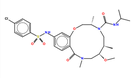
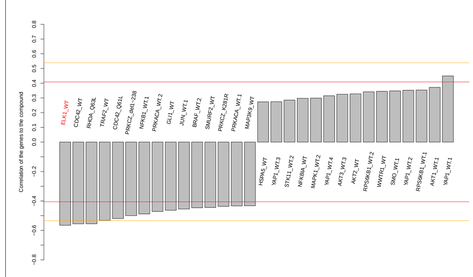
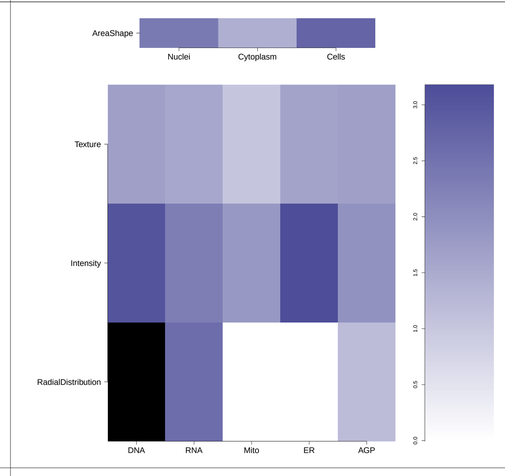
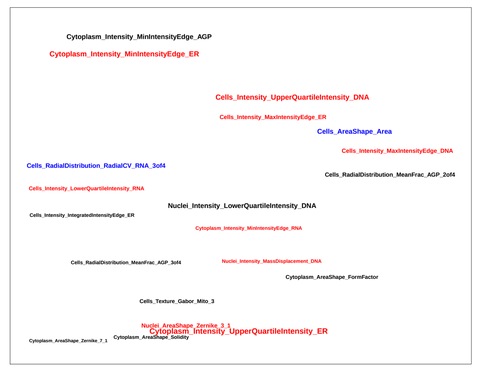
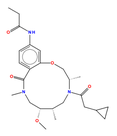
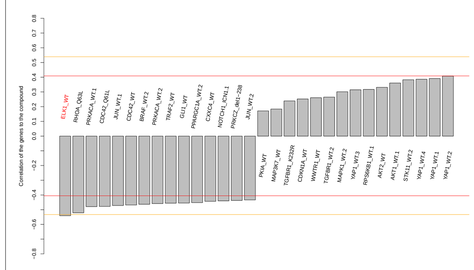
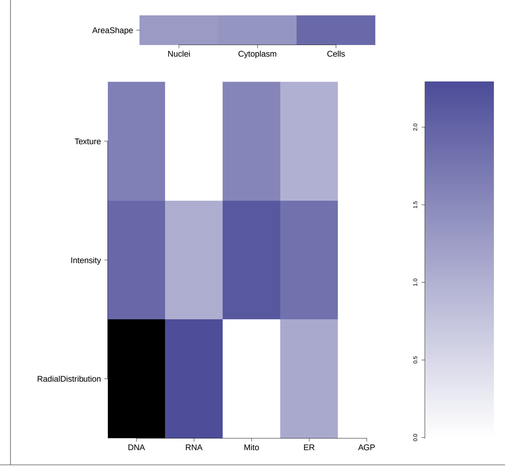
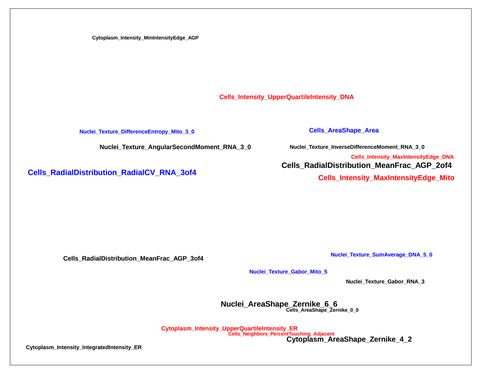


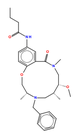
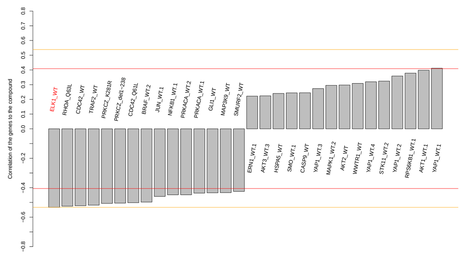
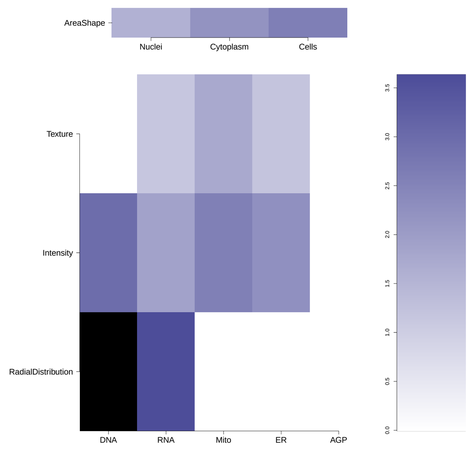
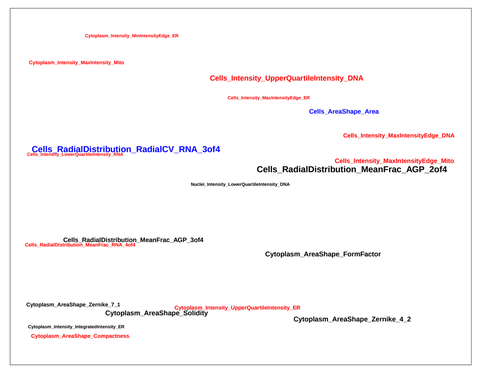
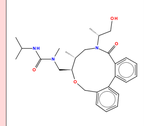
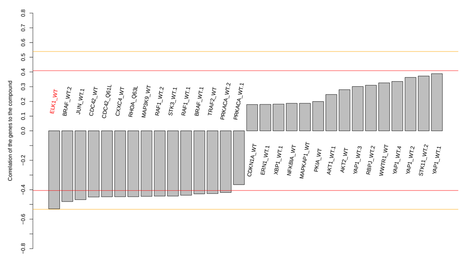
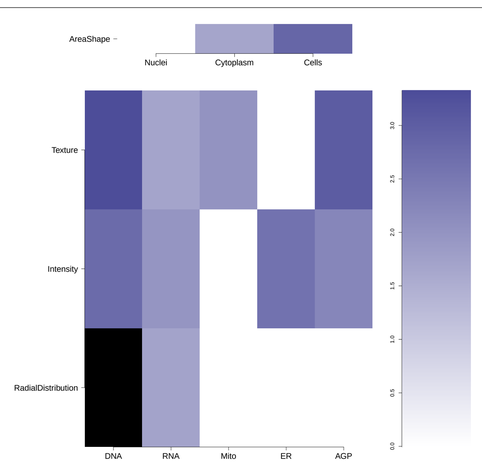
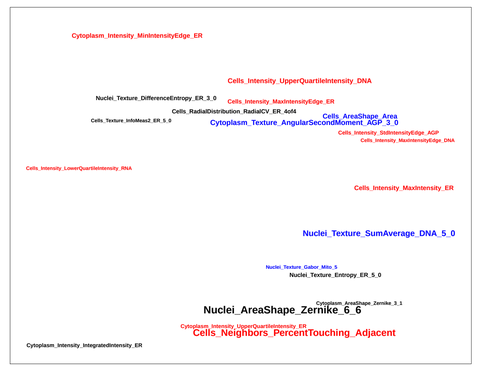
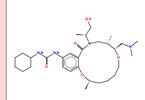
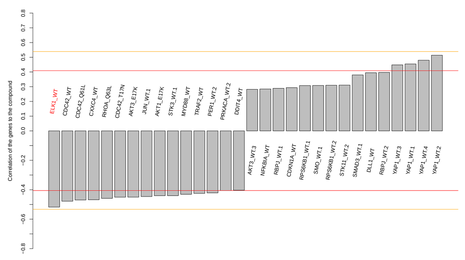
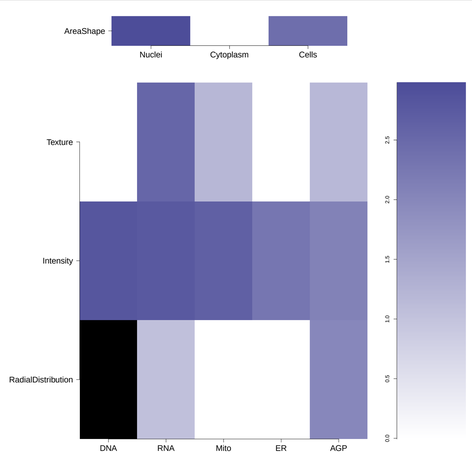
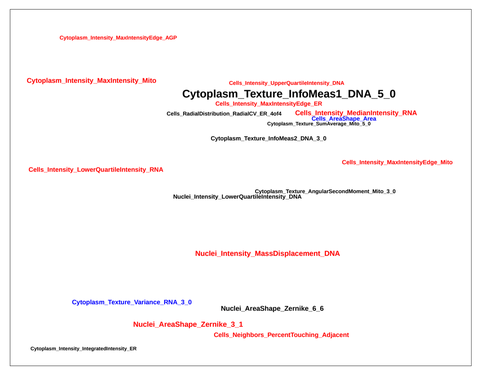
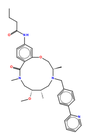
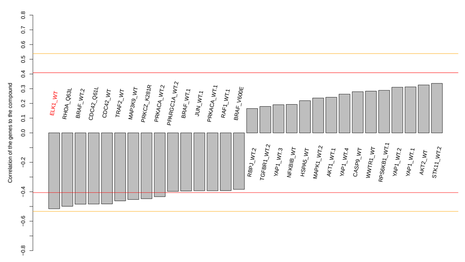
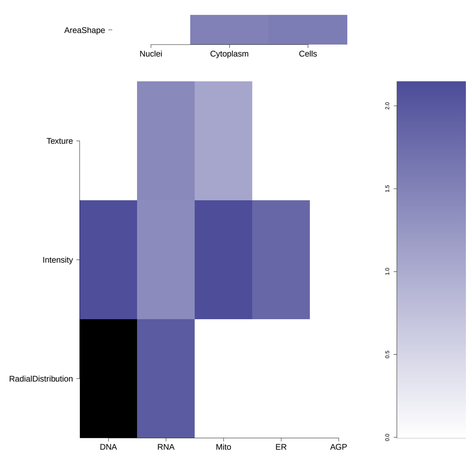
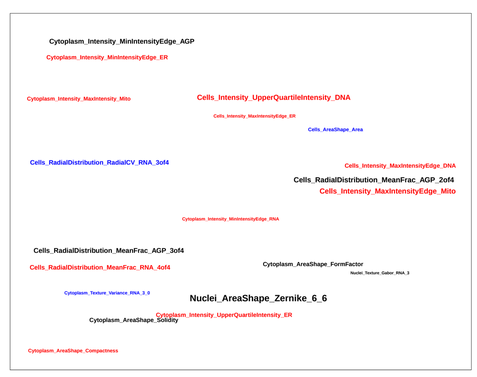
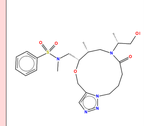
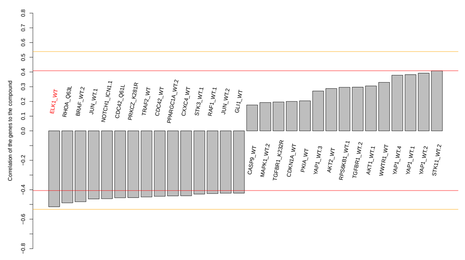
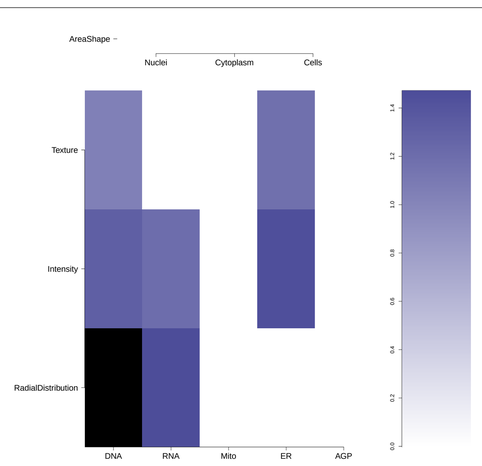
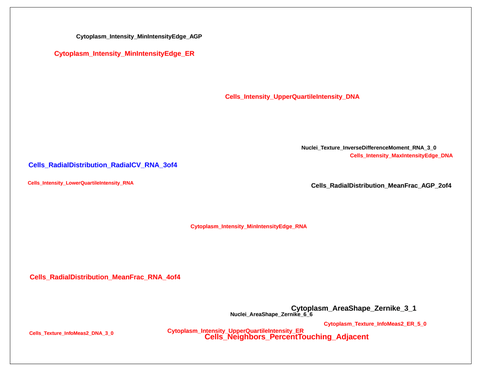
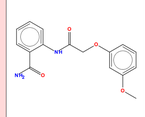
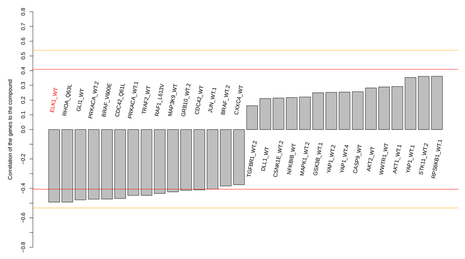
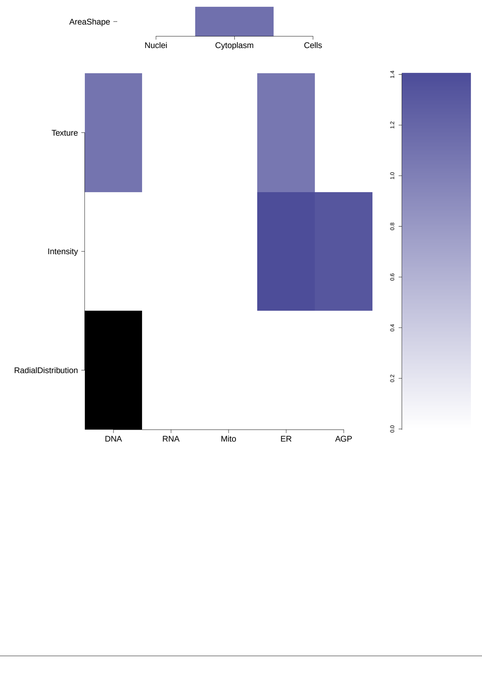
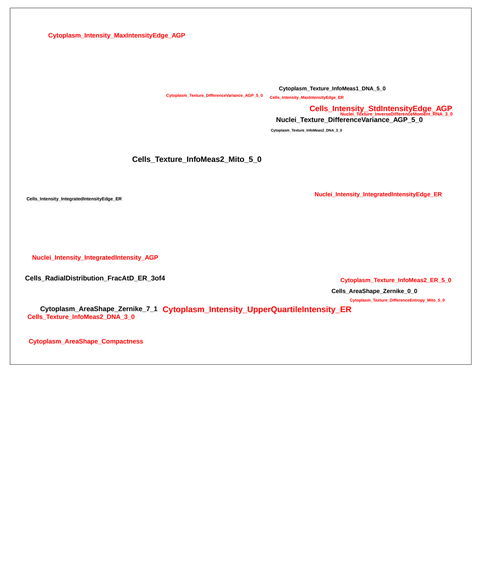
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

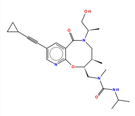
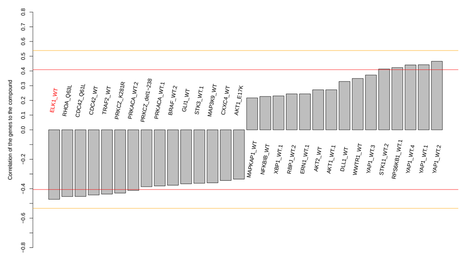
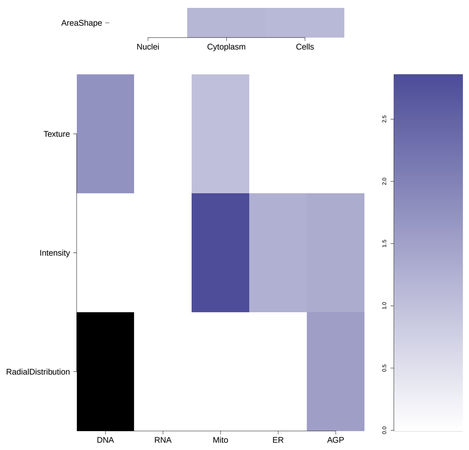
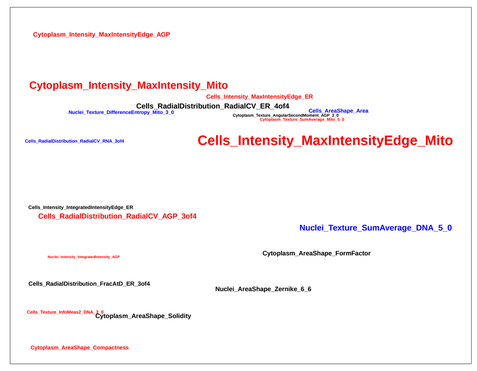


Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.52)	Correlation between compound 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-K83389690-001-05-6 AC1OC9K4 MLS000111778 SMR000107698 PubChem CID : 6897840		0.73 (in 2 replicates)	0.56	NA				Total number of assays tested in: 760. Active in the following assays: • Discovery of novel allosteric modulators of the M1 muscarinic receptor: Antagonist Primary Screen (AID 628) • CYP2C19 Assay (AID 778) • Primary Cell-based High Throughput Screening Assay for Inhibitors of Wee1 Degradation (AID 1321) • qHTS Assay for Enhancers of SMN2 Splice Variant Expression (AID 1458) • HCS for Compounds that Down-Regulate Insulin Promoter Activity in MIN6 Cells (AID 1628) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • qHTS Assay for Rab9 Promoter Activators (AID 485297) • qHTS Assay for NPC1 Promoter Activators (AID 485313) • Counterscreen of compound fluorescence effects on High-throughput multiplex microsphere screening for inhibitors of toxin protease (AID 624483) • Luminescence-based cell-based primary high throughput screening assay to identify activators of the function of SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2, BRM) (AID 652017) • Counterscreen for activators of the function of SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2, BRM): Luminescence-based cell-based high throughput screening assay to identify non-selective compounds using the VP16 reporter assay (AID 686939)
BRD-K41649460-001-01-1 PubChem CID : 44489878		0.60 (in 4 replicates)	0.52	NA				Total number of assays tested in: 43.
BRD-K49713996-001-05-1 ZINC02064499 AC1LWFD0 MLS000713902 HMS2662P12 ZINC2064499 BAS 02136821 SMR000273383 PubChem CID : 1728325		0.61 (in 4 replicates)	0.52	NA				Total number of assays tested in: 617. Active in the following assays: • uHTS absorbance assay for the identification of compounds that inhibit PHOSPHO1 (AID 1565) • VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) • 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) • uHTS identification of microRNA-mediated mRNA deadenylation inhibitors by fluorescence polarization assay (AID 588489)
BRD-K19411733-001-05-6 MLS000583983 AC1MOPU8 HMS2533I03 ZINC8682998 SMR000206969 PubChem CID : 3372998		0.56 (in 2 replicates)	0.51	NA				Total number of assays tested in: 648. Active in the following assays: • Leishmania major promastigote HTS (AID 1063) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834)
BRD-K42532308-001-07-1 MLS000678229 SMR000285214 ASN 05815380 AC1LRW5N BDBM75016 HMS2636I14 HMS3362P20 ZINC20142967 PubChem CID : 1454354		0.59 (in 4 replicates)	0.51	NA				Total number of assays tested in: 642. Active in the following assays: • Screen for Chemicals that Inhibit the RAM Network (AID 868) • Fluorescence Cell-Free Homogeneous Primary HTS to Identify Inhibitors of the RanGTP-Importin-beta complex (AID 2216) • Dyrk1 A HTS Measured in Biochemical System Using Plate Reader - 2124-01_Inhibitor_SinglePoint_HTS_Activity (AID 504441) • qHTS screen for small molecules that inhibit ELG1-dependent DNA repair in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504467) • MLPCN Dyrk1A Kinase Measured in Biochemical System Using Plate Reader - 2124-01_Inhibitor_Dose_CherryPick_Activity (AID 588345) • MLPCN Dyrk1A - CLK1 Selectivity Assay Measured in Biochemical System Using Plate Reader - 2124-05_Inhibitor_Dose_CherryPick_Activity (AID 588811) • qHTS for Antagonists of gsp, the Etiologic Mutation Responsible for Fibrous Dysplasia/McCune-Albright Syndrome: qHTS (AID 624288)
BRD-K36474885-001-01-8 PubChem CID : 44486380		0.77 (in 4 replicates)	0.51	0.206				Total number of assays tested in: 51. 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)

BRD-K90579328-001-06-1 MLS000677323 SMR000286121 ST50276625 BAS 04935871 AC1LL07B BDBM63521 HMS2662M23 STK143414 ZINC13522488 PubChem CID : 1076541		NA (in 1 replicates)	0.50	NA				Total number of assays tested in: 615. Active in the following assays: • Luminescence Cell-Based Primary HTS to Identify Inhibitors of Heat Shock Factor 1 (HSF1). (AID 2098) • Luminescence Cell-Based Dose Confimation HTS to Identify Inhibitors of Heat Shock Factor 1 (HSF1) (AID 2382) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) • 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 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)
BRD-K76506856-001-08-8 MLS000063506 SMR000072361 AC1LFANO Ambcb7382593 BDBM68583 HMS2398H20 ZINC199306 ZINC00199306 CCG-114899 BAS 03574689 EU-0015227 PubChem CID : 750584		0.60 (in 4 replicates)	0.48	NA				Total number of assays tested in: 793. Active in the following assays: • Screening for Modulators of Post-Golgi Transport, Control Strain (AID 738) • Chemical Genetic Screen to Identify Inhibitors of Mitochondrial Fusion - Primary Screen (AID 1362) • MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) • Plate Read Microorganism-Based Primary HTS to Identify Modulators of the AI-2 Quorum Sensing System (AID 2094) • Primary cell-based high-throughput screening assay for identification of compounds that inhibit KCNQ2 potassium channels (AID 2156) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • Luminescence Microorganism Primary HTS to Identify Inhibitors of the SUMOylation Pathway Using a Temperature Sensitive Growth Reversal Mutant Mot1-301 (AID 2716) • Luminescence Microorganism Retest to Identify Inhibitors of the AI-2 Quorum Sensing System (AID 2727) • Luminescence Microorganism-Based Retest to Identify Modulators of the AI-2 Quorum Sensing System (AID 2736) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • qHTS for Inhibitors of Polymerase Iota (AID 588590)
BRD-K28667054-001-01-2 PubChem CID : 44490899		0.53 (in 4 replicates)	0.46	NA				Total number of assays tested in: 36.
BRD-K39927438-001-06-3 ZINC02846737 AC1M2UBZ Ambcb7748216 MLS000624949 HMS2637D06 HMS3364M20 ZINC2846737 SMR000293716 PubChem CID : 2201266		0.54 (in 4 replicates)	0.43	NA				Total number of assays tested in: 627. Active in the following assays: • Primary cell-based high throughput screening assay to measure STAT1 activation (AID 932) • qHTS Assay for Enhancers of SMN2 Splice Variant Expression (AID 1458) • MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) • Luminescence-based primary cell-based high throughput screening assay to identify activators of the Aryl Hydrocarbon Receptor (AHR) (AID 2796) • Activator for delta FosB/delta FosB homodimer Measured in Biochemical System Using Plate Reader - 2072-01_Activator_SinglePoint_HTS_Activity (AID 493131) • Counterscreen for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis: Absorbance-based biochemical high throughput Glycerophosphate Dehydrogenase-Triosephosphate Isomerase (GDH-TPI) full deck assay to identify assay artifacts (AID 588335) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • qHTS Assay to Identify Small Molecule Activators of BRCA1 Expression (AID 624202)
BRD-K89476396-001-01-1 PubChem CID : 54633883		0.77 (in 3 replicates)	-0.57	0.804				Total number of assays tested in: 36.
BRD-K87942399-001-01-1 PubChem CID : 54633945		0.65 (in 3 replicates)	-0.54	0.414				Total number of assays tested in: 35. Active in the following assays: • S100A4: HTS Measured in Biochemical System Using Plate Reader - 7045-01_Inhibitor_SinglePoint_HTS_Activity (AID 652163)

BRD-K75327442-001-01-6 PubChem CID : 54633188		0.70 (in 4 replicates)	-0.53	NA				Total number of assays tested in: 38. Active in the following assays: • S100A4: HTS Measured in Biochemical System Using Plate Reader - 7045-01_Inhibitor_SinglePoint_HTS_Activity (AID 652163)
BRD-K63545954-001-01-7 PubChem CID : 56835464		0.72 (in 3 replicates)	-0.53	0.782				Total number of assays tested in: 35.
BRD-K78642007-001-01-2 PubChem CID : 44618797		0.78 (in 4 replicates)	-0.52	0.962				Total number of assays tested in: 23.
BRD-K55142307-001-01-7 PubChem CID : 54633804		0.62 (in 4 replicates)	-0.52	0.215				Total number of assays tested in: 35. Active in the following assays: • S100A4: HTS Measured in Biochemical System Using Plate Reader - 7045-01_Inhibitor_SinglePoint_HTS_Activity (AID 652163)
BRD-K86569253-001-02-6 MLS003129313 SMR001833759 PubChem CID : 44504932		0.52 (in 3 replicates)	-0.52	0.855				Total number of assays tested in: 221.
BRD-K07867787-001-05-8 MLS000039052 SMR000034535 AC1LD1MQ BDBM42624 HMS2348L11 ZINC4192030 STK041791 ZINC04192030 PubChem CID : 659792		0.59 (in 4 replicates)	-0.49	NA				Total number of assays tested in: 816. Active in the following assays: • qHTS Assay for Inhibitors of Firefly Luciferase (AID 411) • Primary biochemical high-throughput screening assay for inhibitors of the c-Jun N-Terminal Kinase 3 (JNK3) (AID 746) • Counter Screen for Luciferase-based Primary Inhibition Assays (AID 1006) • qHTS Assay for Enhancers of SMN2 Splice Variant Expression (AID 1458) • MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • qHTS Assay for Rab9 Promoter Activators (AID 485297) • qHTS screen for small molecules that induce genotoxicity in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504466) • Counterscreen for agonists of OPRM1-OPRD1 heterodimerization: luminescence-based cell-based full-deck high throughput screening assay to identify agonists of 5-hydroxytryptamine (serotonin) 5A receptor (HTR5A) (AID 504692) • Luminescence-based cell-based high throughput confirmation assay for agonists of 5-hydroxytryptamine (serotonin) 5A receptor (HTR5A) (AID 504915) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • MLPCN SirT-5 Measured in Biochemical System Using Imaging - 7044-01_Inhibitor_SinglePoint_HTS_Activity_Set5 (AID 652115) • Wnt/Beta-catenin HTS Measured in Cell-Based System Using Plate Reader - 2161-01_Activator_SinglePoint_HTS_Activity (AID 743398)

BRD-K59514730-001-01-0 PubChem CID : 54618392		0.58 (in 4 replicates)	-0.47	NA				Total number of assays tested in: 37.
BRD-K88072146-001-01-2 PubChem CID : 44505907		0.53 (in 3 replicates)	-0.45	NA				Total number of assays tested in: 44.