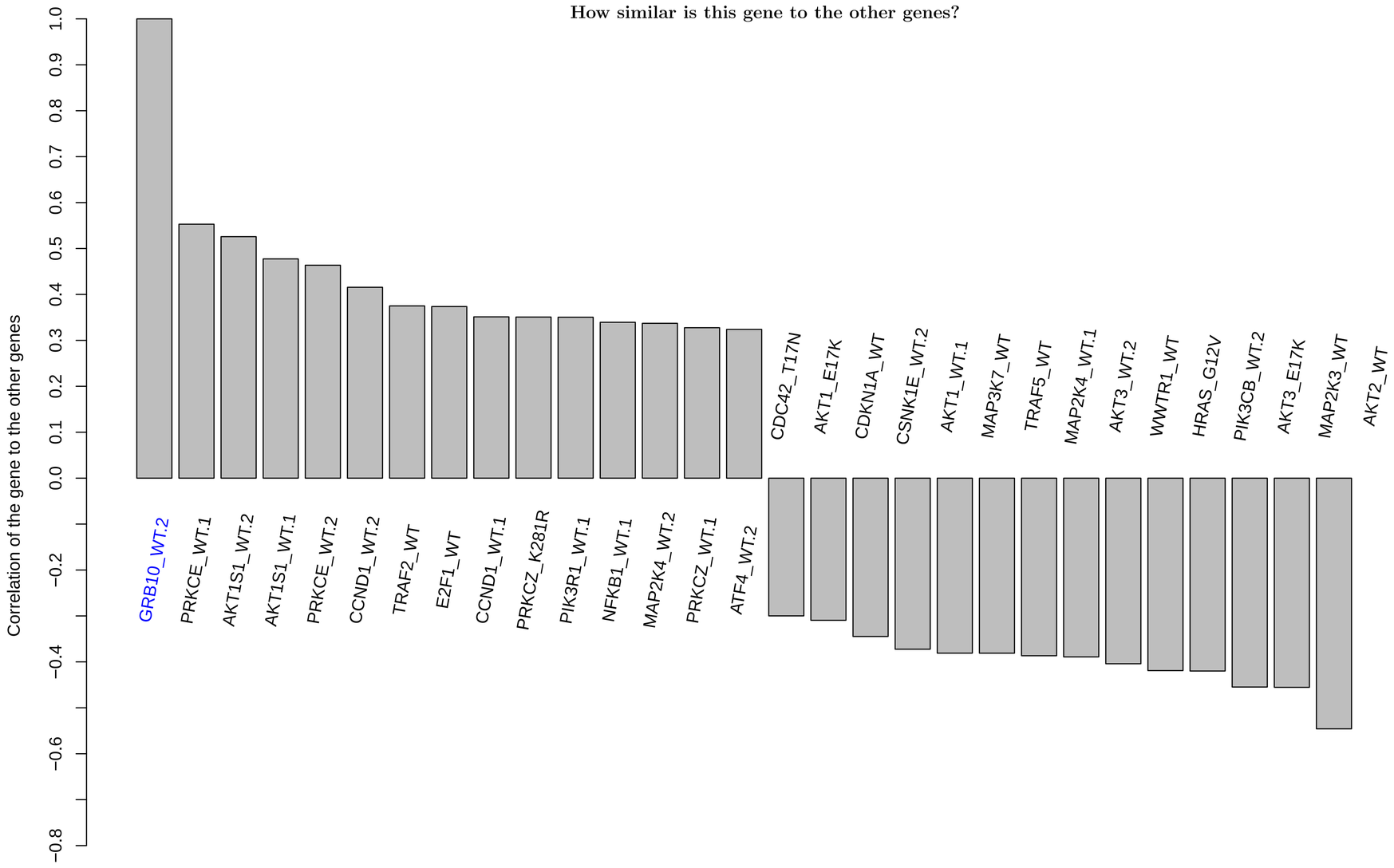
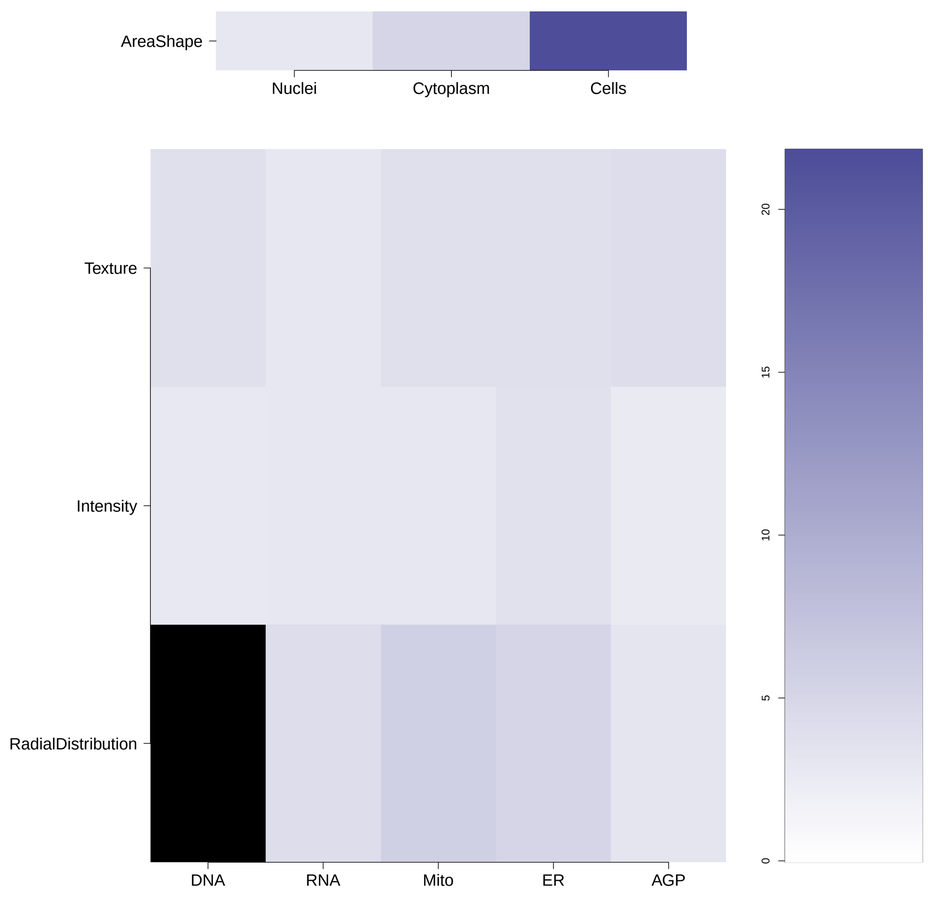
GRB10_WT.2 - in Canonical Insulin Receptor Signaling

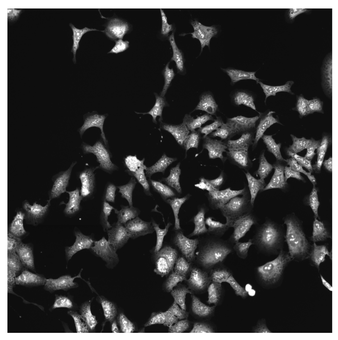
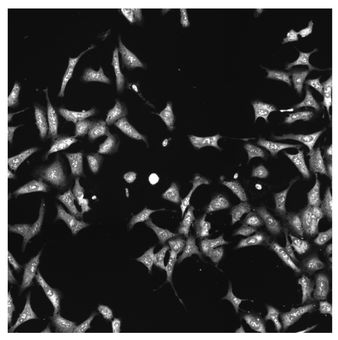
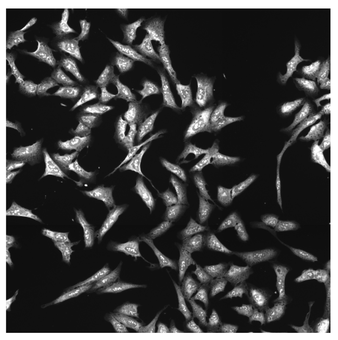
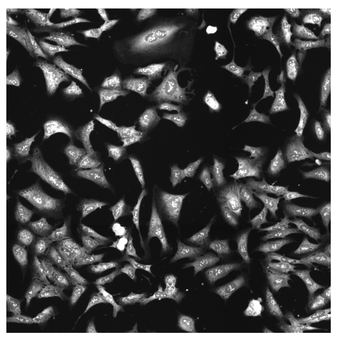
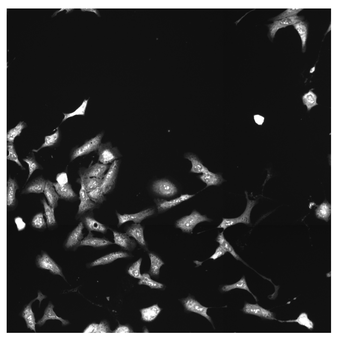
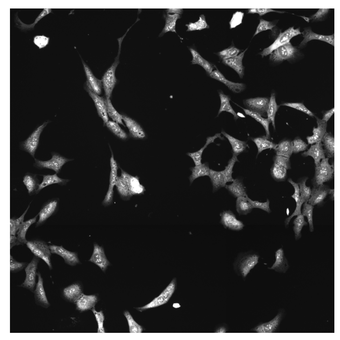
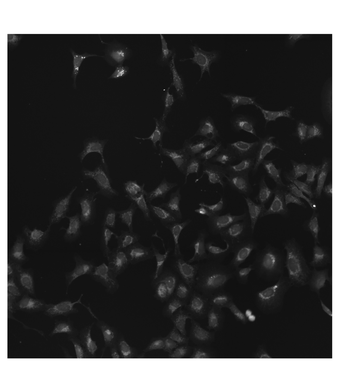
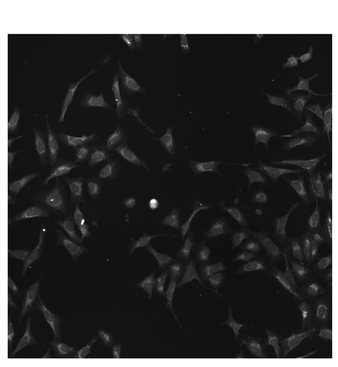
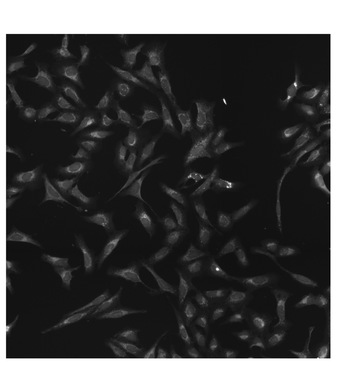
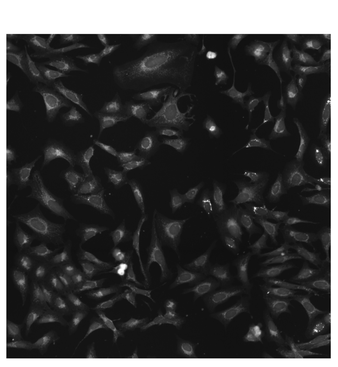
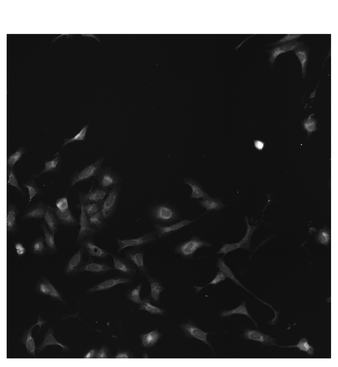
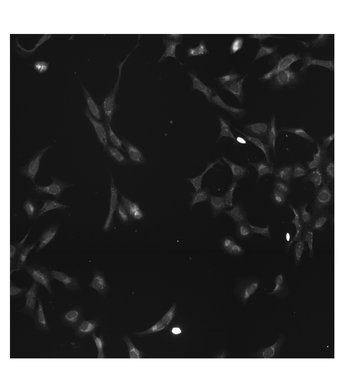
How similar is this gene to the other genes?



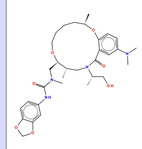
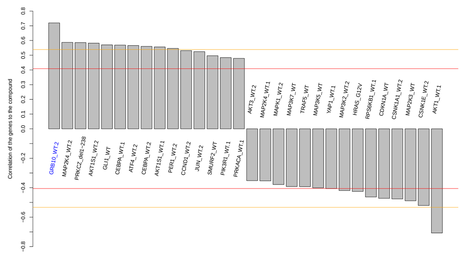
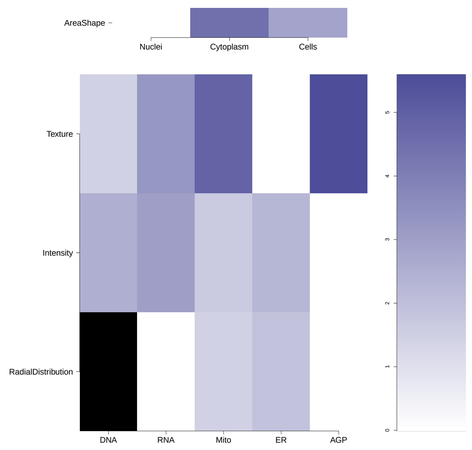
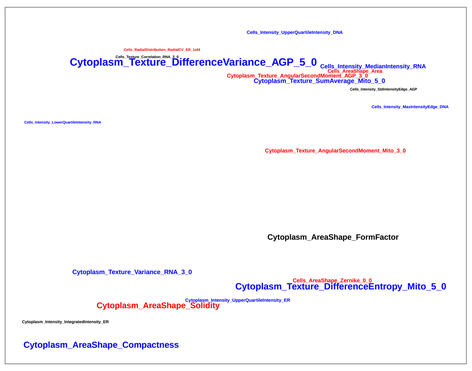
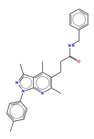
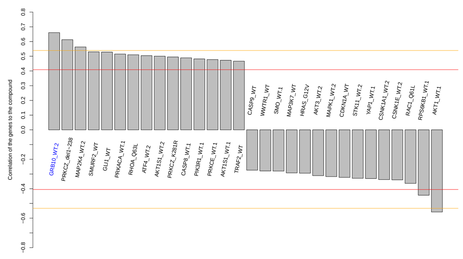
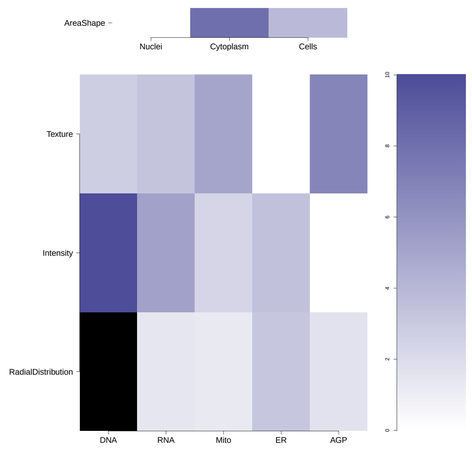
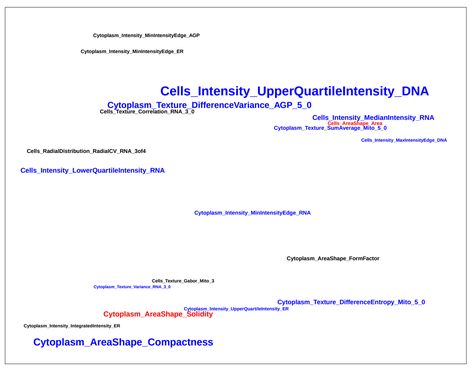
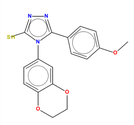
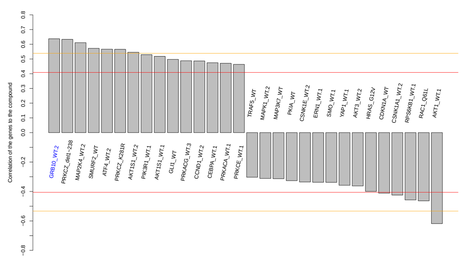
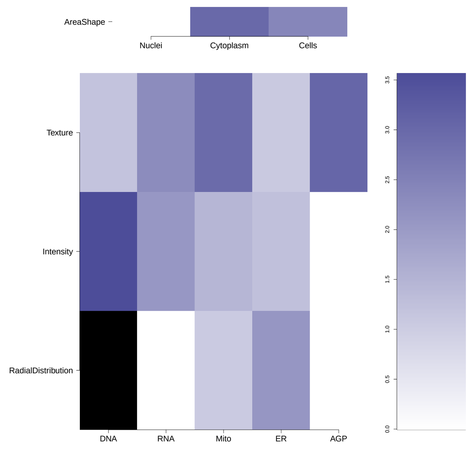
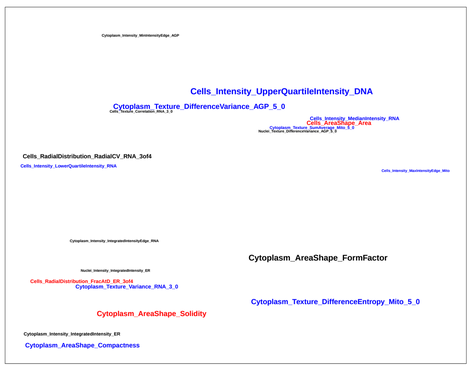
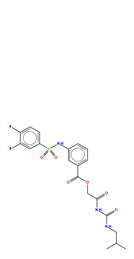
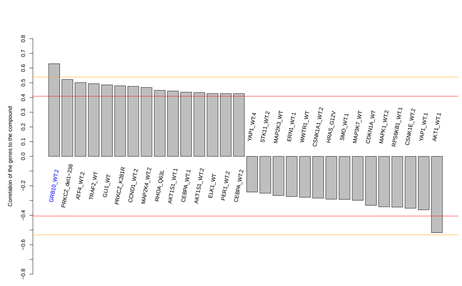
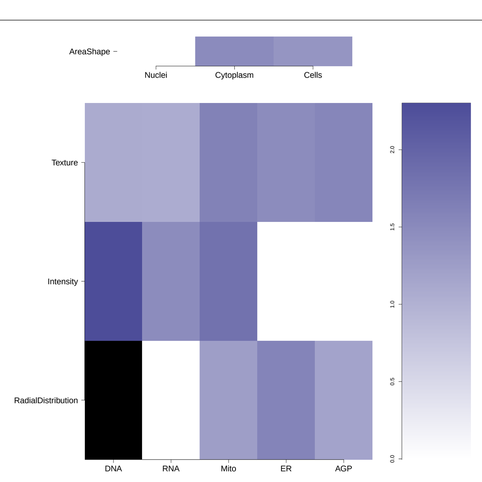
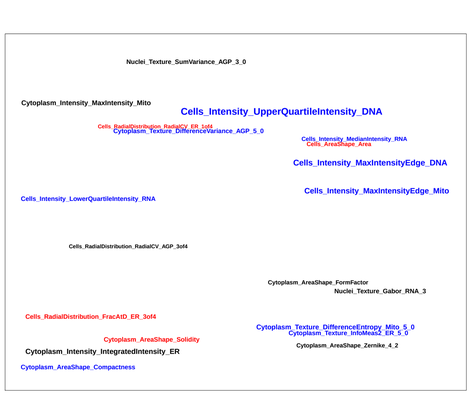
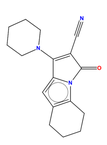
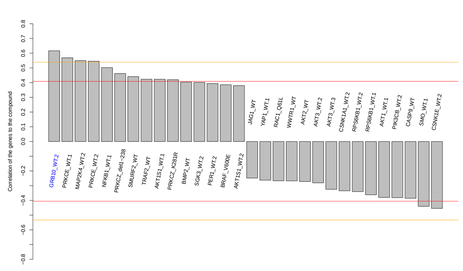
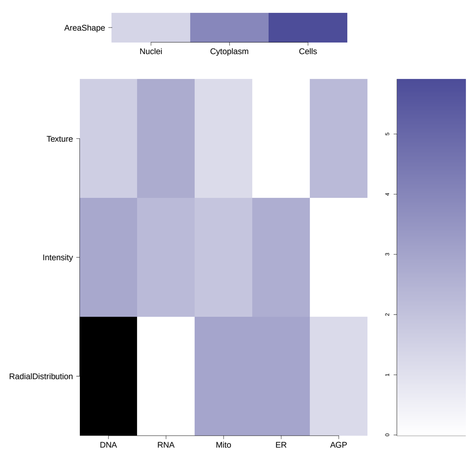
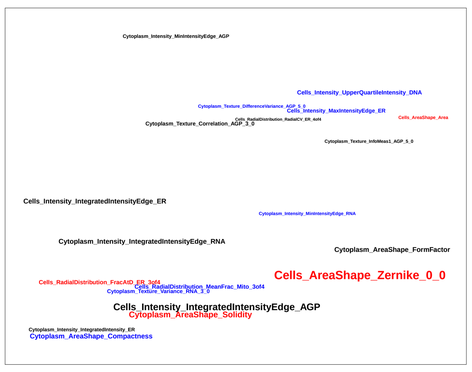
What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

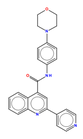
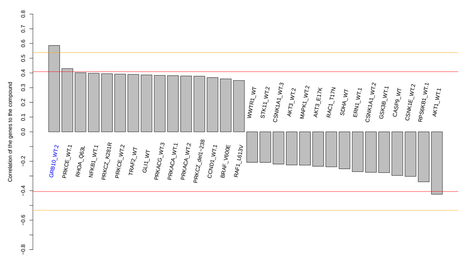
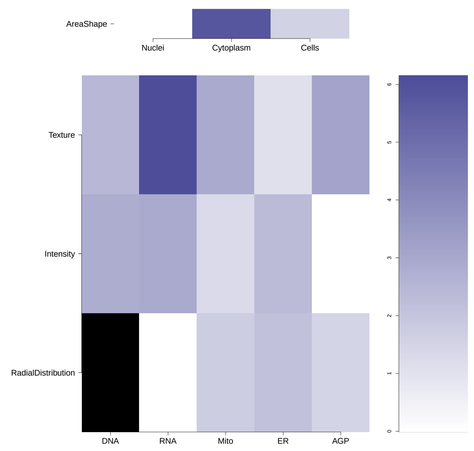
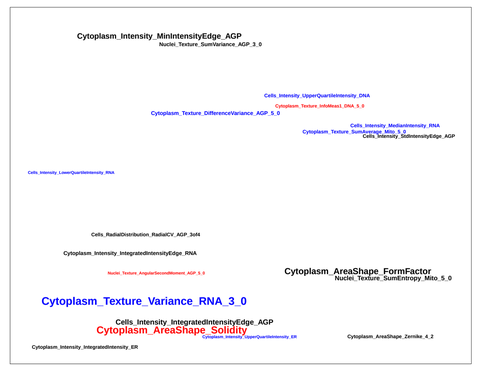
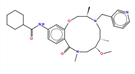
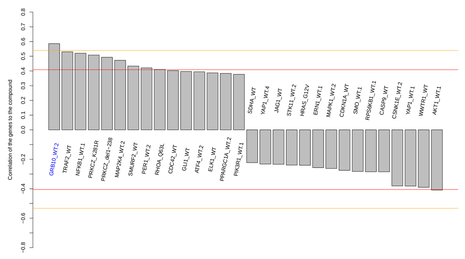
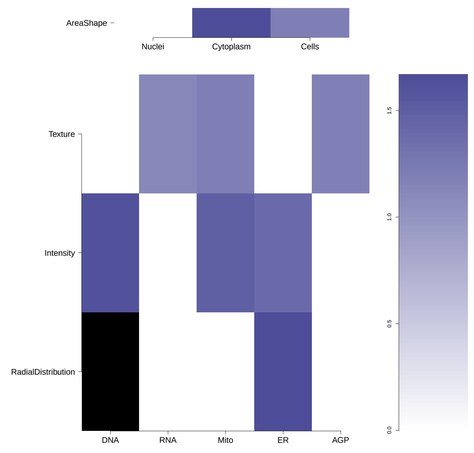
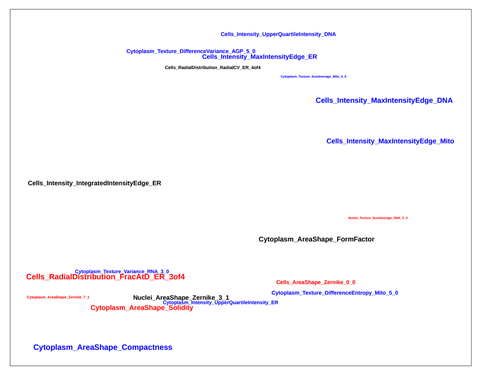
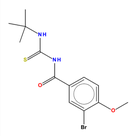
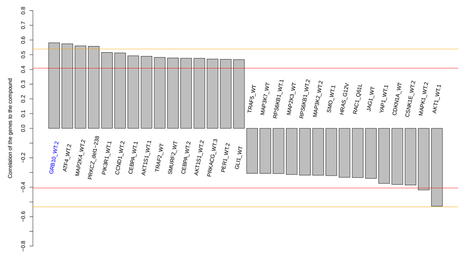
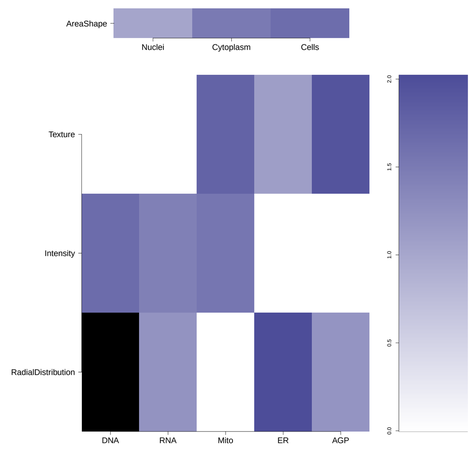
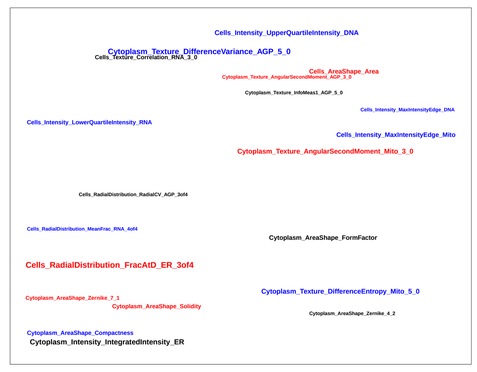
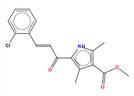
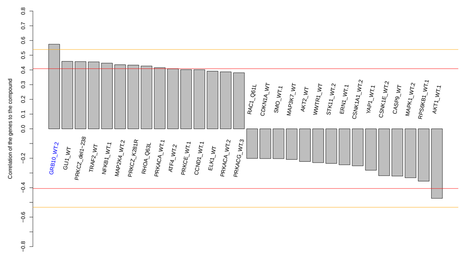
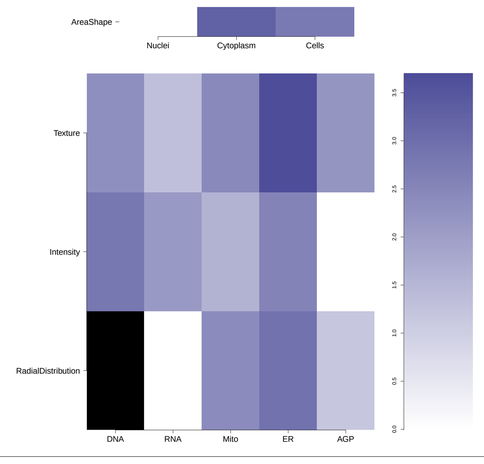
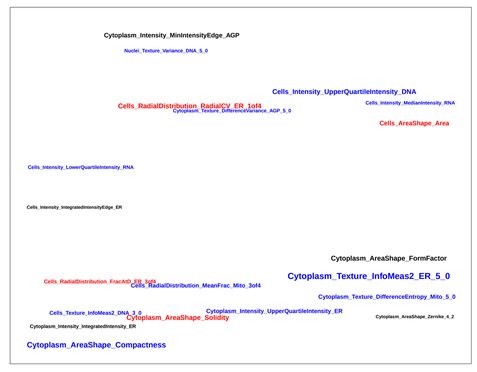
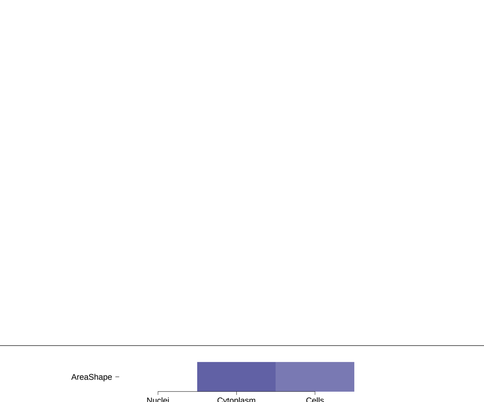


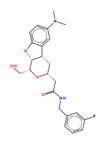
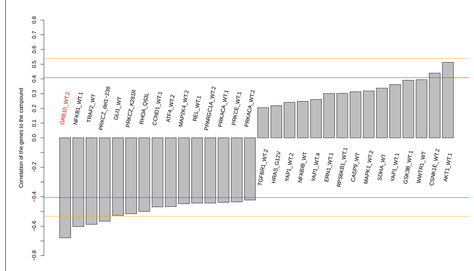
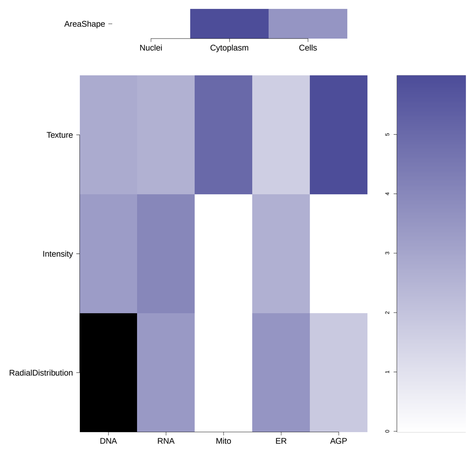
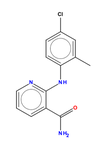
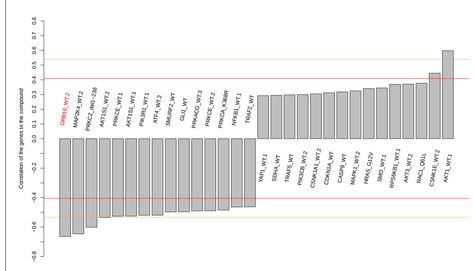
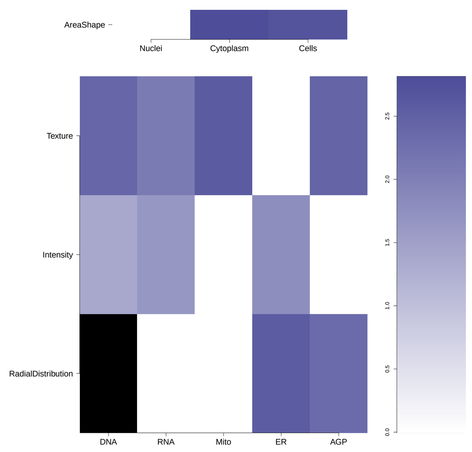
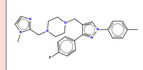
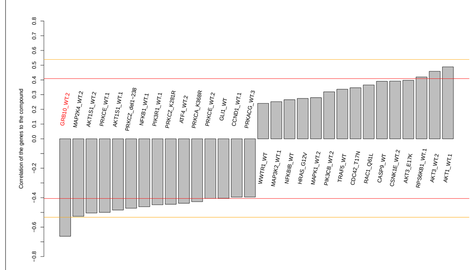
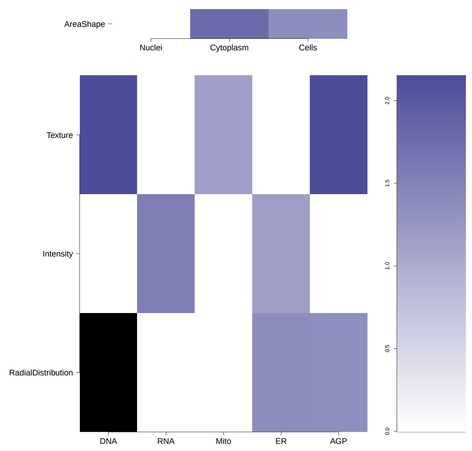
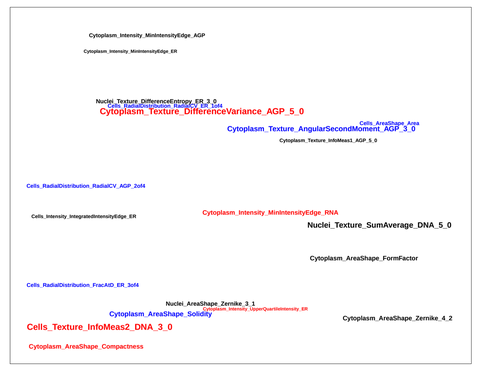
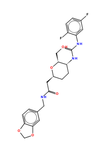
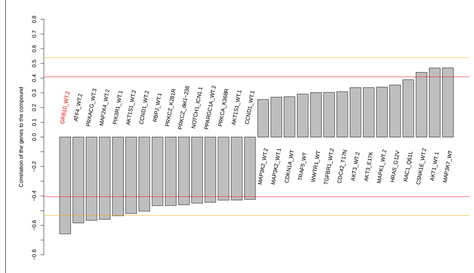
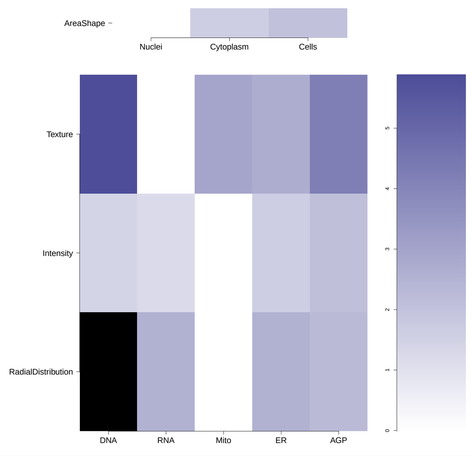
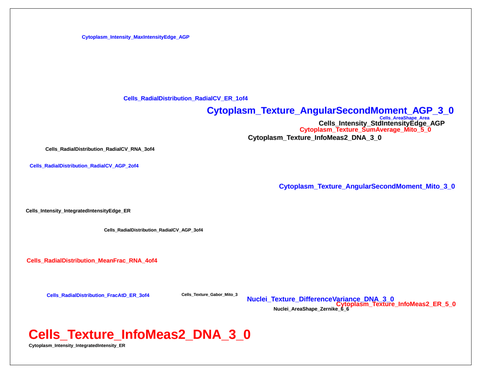
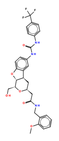
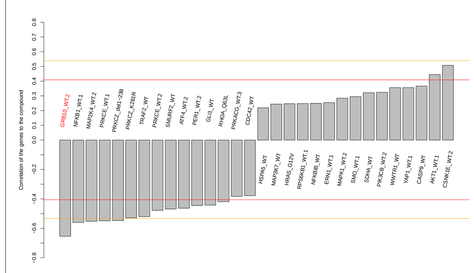
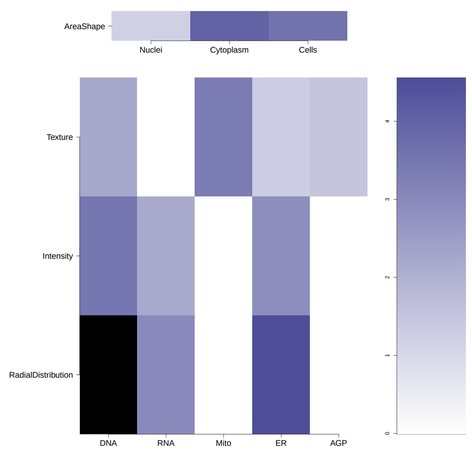
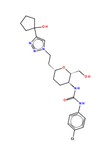
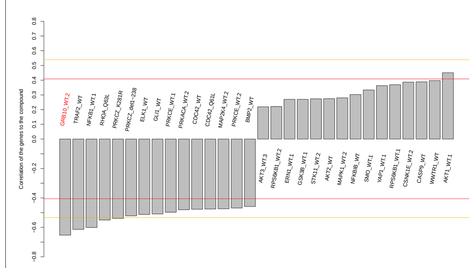
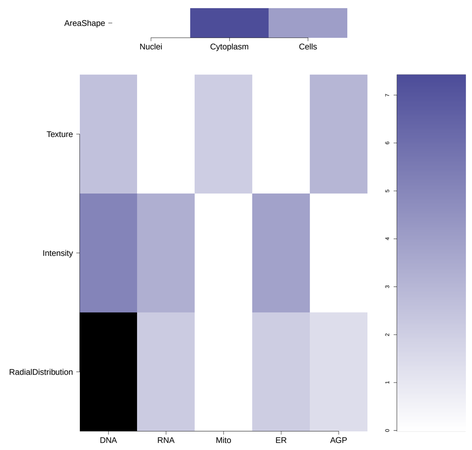
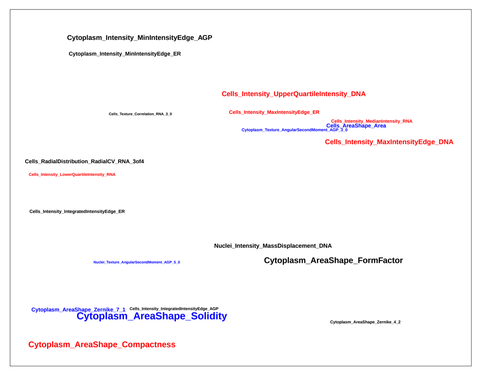
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

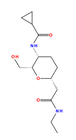
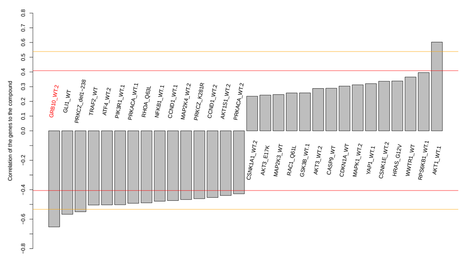
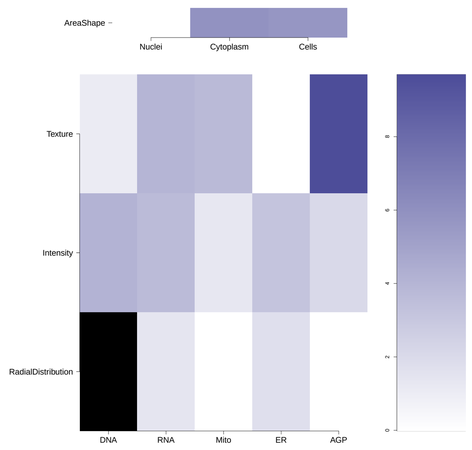
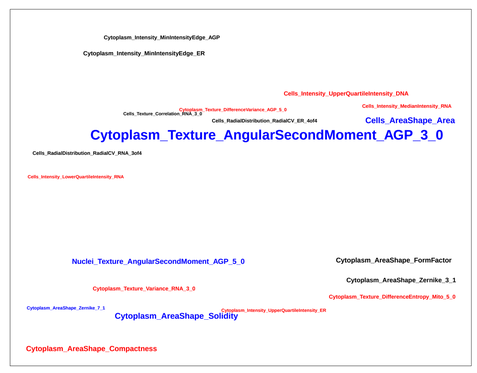
Empty	GRB10_WT.2 (41744)	GRB10_WT.2 (41755)	GRB10_WT.2 (41756)	GRB10_WT.2 (41757)	GRB10_WT.2 (41754)
RNA						
Mito						

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-K62982533-001-01-3 PubChem CID : 54614861		0.83 (in 4 replicates)	0.72	0.030				Total number of assays tested in: 35.
BRD-K17466510-001-04-4 MLS000522778 SMR000128044 BDBM55419 HMS2248P21 ZINC5151854 PubChem CID : 9551280		0.66 (in 2 replicates)	0.66	NA				Total number of assays tested in: 687. Active in the following assays: • Human H69AR Lung Tumor Cell Growth Inhibition Assay - 86K Screen (AID 598) • uHTS of small molecular inhibitors for p47phox, a regulatory protein of NADPH oxidases (Noxs) (AID 1274) • HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732) • HTS Assay for Compounds that Act as Agonists of the Vanilloid Receptor 1 (AID 540275) • qHTS for Inhibitors of KCHN2 3.1: Mutant qHTS (AID 720553)
BRD-K08134664-001-05-0 STK580675 MLS000331981 AC1LZLT8 HMS2612D05 ZINC5695540 STK784167 ZINC05695540 BAS 12915187 SMR000221512 ST50294284 PubChem CID : 1952606		NA (in 1 replicates)	0.64	NA				Total number of assays tested in: 637. Active in the following assays: • qHTS Assay for Inhibitors of HPGD (15-Hydroxyprostaglandin Dehydrogenase) (AID 894) • Primary biochemical high throughput screening assay to identify inhibitors of VIM-2 metallo-beta-lactamase (AID 1527) • QFRET-based primary biochemical high throughput screening assay to identify inhibitors of the Plasmodium falciparum M18 Aspartyl Aminopeptidase (PFM18AAP). (AID 1822) • FRET-based counterscreen assay for selective VIM-2 inhibitors: biochemical high throughput screening assay to identify epi-absorbance assay artifacts (AID 1857) • Epi-absorbance-based confirmation assay for common VIM-2 and IMP-1 inhibitors: biochemical high throughput screening assay to identify inhibitors of VIM-2 metallo-beta-lactamase. (AID 2187) • 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 Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • qHTS Assay for Inhibitors of JMJD2A-Tudor Domain (AID 504339)
BRD-K48977762-001-05-5 T5286264 SMR000243892 AC1M8PEA MLS000707800 MLS003913049 HMS2550B23 ZINC3373389 PubChem CID : 2491151		0.59 (in 3 replicates)	0.63	NA				Total number of assays tested in: 644. Active in the following assays: • Multiplex HTS Assay for Inhibitors of MEK Kinase PB1 Domains, specifically MEK5 MEK Kinase3 Wildtype (AID 1529)
BRD-K66701278-001-06-1 ST078211 ZINC01075925 AC1LOI0G MLS000519573 HMS1551E20 HMS2188O12 ZINC1075925 STK772119 SMR000129991 PubChem CID : 1263570		NA (in 1 replicates)	0.62	NA				Total number of assays tested in: 690. 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) • uHTS identification of small molecule inhibitors of tim10 yeast via a luminescent assay (AID 463195) • uHTS identification of small molecule inhibitors of tim23-1 yeast via a luminescent assay (AID 463212) • Single concentration confirmation of small molecule inhibitors of tim10 yeast via a luminescent assay (AID 463215) • Single concentration confirmation of small molecule inhibitors of tim23-1 yeast via a luminescent assay (AID 463218) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • qHTS Assay for Inhibitors of BAZ2B (AID 504333) • Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human M1 muscarinic receptor (CHRM1) (AID 588852) • Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human cholinergic receptor, muscarinic 4 (CHRM4) (AID 624125) • uHTS identification of small molecule inhibitors of the catalytic domain of the SUMO protease, SENP1 in a FRET assay (AID 624204) • qHTS of TDP-43 Inhibitors (AID 652104) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979)
BRD-K86295081-001-05-9 AC1MDOP1 MLS000860649 HMS1303J17 HMS2795J16 ZINC19835223 IDI1 001255 SMR000458733 PubChem CID : 2814435		0.70 (in 4 replicates)	0.60	NA				Total number of assays tested in: 578. Active in the following assays: • Allosteric Agonists of the Human D1 Dopamine Receptor: qHTS (AID 504660) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 48 hour incubation (AID 504832) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834) • qHTS Assay for Activators of ClpP (AID 651965)

BRD-K31425478-001-06-7 MLS001004790 SMR000348292 AC1M54BY BDBM63762 HMS2752P09 ZINC38149239 T0503-9481 PubChem CID : 2321599		NA (in 1 replicates)	0.59	NA				Total number of assays tested in: 569. Active in the following assays: • Luminescence Cell-Based Primary HTS to Identify Inhibitors of Heat Shock Factor 1 (HSF1). (AID 2098) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979)
BRD-K09248459-001-01-5 PubChem CID : 54632862		0.68 (in 4 replicates)	0.59	0.701				Total number of assays tested in: 36.
BRD-K63190417-001-06-2 STK209837 MLS000573378 AC1LH450 ZINC452247 ZINC00452247 SMR000194880 PubChem CID : 881461		0.59 (in 3 replicates)	0.58	NA				Total number of assays tested in: 671. Active in the following assays: • qHTS Assay for Inhibitors of 15-hLO-2 (15-human lipoxygenase 2) (AID 881) • Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Primary Screen (AID 1456) • MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) • Cytochrome panel assay with activity outcomes (AID 1851) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) • HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732) • uHTS identification of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463190) • uHTS identification of small molecule inhibitors of tim10 yeast via a luminescent assay (AID 463195) • uHTS identification of small molecule inhibitors of tim23-1 yeast via a luminescent assay (AID 463212) • Single concentration confirmation of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463213) • Single concentration confirmation of small molecule inhibitors of tim10 yeast via a luminescent assay (AID 463215) • Single concentration confirmation of small molecule inhibitors of tim23-1 yeast via a luminescent assay (AID 463218) • qHTS Assay for Inhibitors of BAZ2B (AID 504333) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834) • 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) • qHTS Assay to Identify Small Molecule Activators of BRCA1 Expression (AID 624202) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)
BRD-K87511565-001-05-3 ZINC04772897 AC1NZHCA MLS000588944 HMS2745D09 ZINC4772897 STL323181 SMR000212578 PubChem CID : 5908361		0.58 (in 4 replicates)	0.57	NA				Total number of assays tested in: 552. Active in the following assays: • 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 NPC1 Promoter Activators (AID 485313)
BRD-A09115727-001-05-5 AC1MJ6Y4 MLS000106846 HMS1613C12 HMS2483B22 CCG-8375 BAS 00443100 SMR000111222 PubChem CID : 3107523		0.77 (in 4 replicates)	-0.70	0.299				Total number of assays tested in: 773. Active in the following assays: • HTS to identify inhibitors of TNF-alpha Induced Cell Death in Jurkat FADD-/- Cells. (AID 463075) • Identify inhibitors of TNF-alpha Induced Cell Death in Jurkat FADD-/- Cells: Confirmation Assay (AID 463178) • Confirmation Assay for Identification of Novel General Anesthetics (AID 489008) • Fluorescence polarization-based cell-based primary high throughput screening assay to identify activators of insulin-degrading enzyme (IDE) (AID 493087)
BRD-K21384842-001-01-8 PubChem CID : 54645807		NA (in 1 replicates)	-0.68	0.299				Total number of assays tested in: 39. Active in the following assays: • IL-1beta eGFP -dsRED non-canonical Pathway Differentiation Measured in Cell-Based System Using Flow Cytometry - 2122-09_Inhibitor_Dose_DryPowder_Activity (AID 652046)

BRD-K40442760-001-01-9 PubChem CID : 54645809		NA (in 1 replicates)	-0.68	0.202				Total number of assays tested in: 39.
BRD-K39858575-001-05-5 ZINC00481288 AC1LICN6 MLS000701602 HMS2588K19 ZINC481288 SMR000226867 PubChem CID : 901918		0.86 (in 4 replicates)	-0.66	0.928				Total number of assays tested in: 645. 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) • qHTS Assay for Modulators of miRNAs and/or Inhibitors of miR-21 (AID 2289) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • Primary cell-based high-throughput screening assay for identification of compounds that inhibit regulator of G-protein signaling 4 (RGS4) (AID 463165) • Validation assay for identification of compounds that inhibit the regulator of G-protein signaling 4 (RGS4) (AID 492999) • Luminescence-based primary cell-based high throughput screening assay to identify inhibitors of the orphan nuclear receptor subfamily 0, group B, member 1 (DAX1; NR0B1) (AID 504766) • 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-K36646212-001-05-6 MLS000735977 HMS2620O10 ZINC19838703 SMR000317450 PubChem CID : 16191900		NA (in 1 replicates)	-0.66	NA				Total number of assays tested in: 639. Active in the following assays: • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • Primary cell-based high-throughput screening assay for antagonists of NPY-Y1 (AID 1040) • Counterscreen assay for antagonists of neuropeptide Y receptor Y1 (NPY-Y1): Cell-based high throughput assay to measure NPY-Y2 antagonism (AID 1255) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • Primary cell-based screen for identification of compounds that inhibit the Choline Transporter (CHT) (AID 488975) • Confirmatory screen for compounds that inhibit the Choline Transporter (CHT) (AID 493221) • Heat Shock Factor-1 (HSF-1) Measured in Cell-Based System Using Plate Reader - 2038-01_Activator_SinglePoint_HTS_Activity (AID 504408) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 48 hour incubation (AID 504832) • Dose responses of compounds that inhibit the Choline Transporter (CHT) - 5 point CRC (AID 504840) • MLPCN SirT-5 Measured in Biochemical System Using Imaging - 7044-01_Inhibitor_SinglePoint_HTS_Activity_Set5 (AID 652115)
BRD-K89009198-001-01-0 PubChem CID : 54641370		NA (in 1 replicates)	-0.66	NA				Total number of assays tested in: 38.
BRD-K22553301-001-01-8 PubChem CID : 54645969		NA (in 1 replicates)	-0.65	0.299				Total number of assays tested in: 41. 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) • Inhibition of T.cruzi proliferation in culture Measured in Cell-Based System Using Plate Reader - 2138-01_Inhibitor_SinglePoint_CherryPick_Activity (AID 651739)
BRD-K04830910-001-01-8 PubChem CID : 54641362		NA (in 1 replicates)	-0.65	NA				Total number of assays tested in: 37.

BRD-K34257113-001-01-3 PubChem CID : 54641256		NA (in 1 replicates)	-0.65	NA				Total number of assays tested in: 39.
BRD-K70485249-001-01-2 PubChem CID : 54641366		NA (in 1 replicates)	-0.65	NA				Total number of assays tested in: 37.