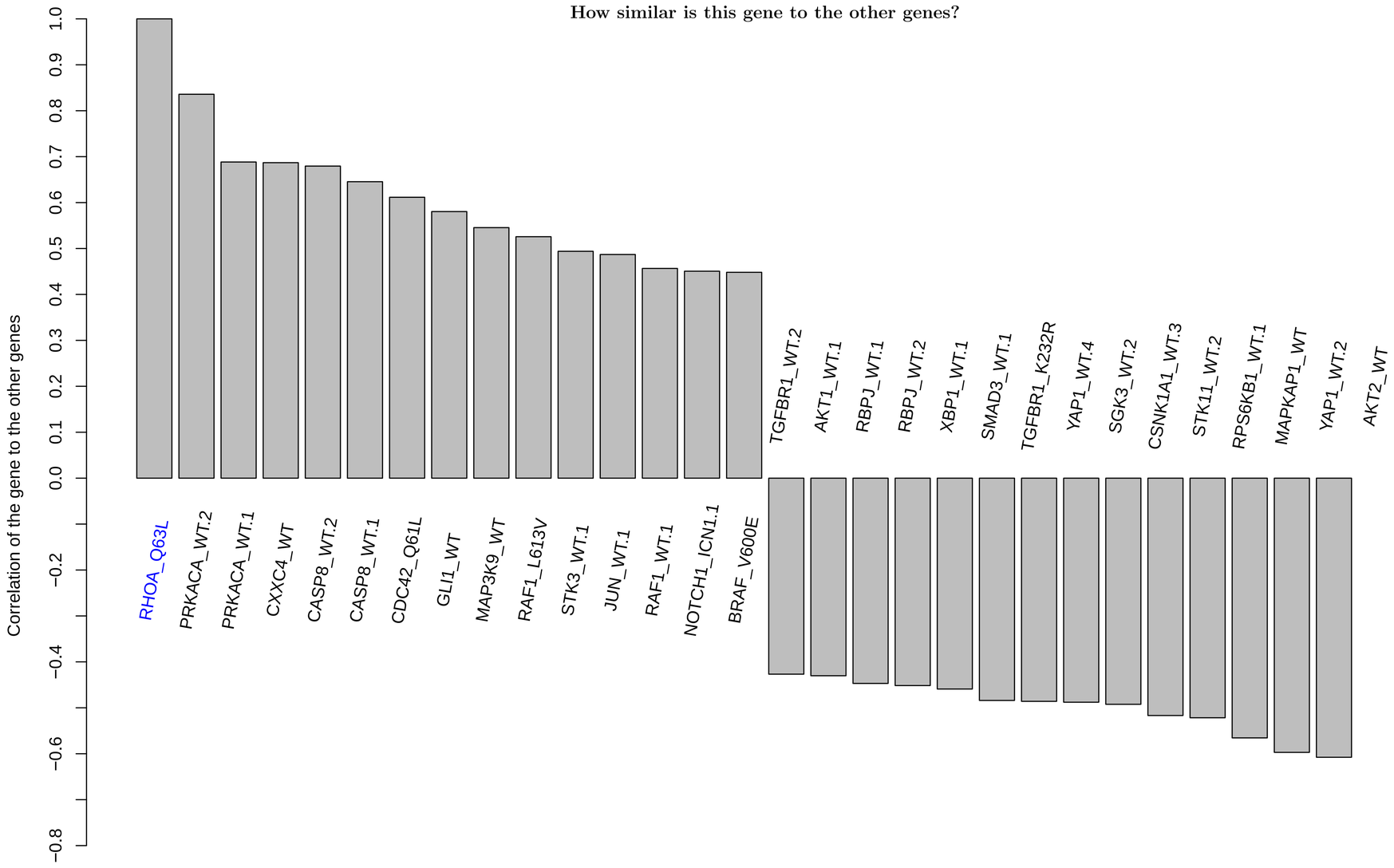
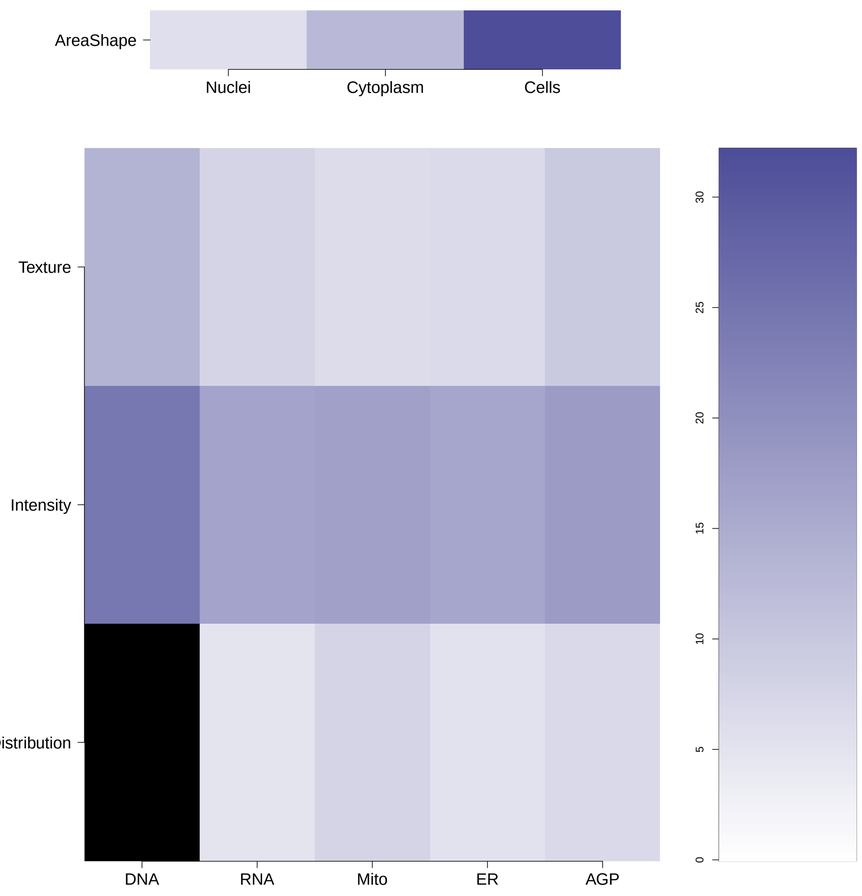
RHOA_Q63L - in Canonical Cytoskeletal Re-org

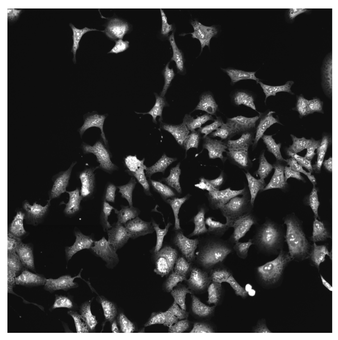
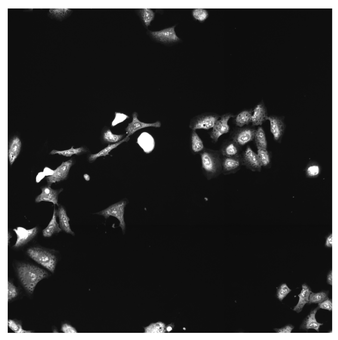
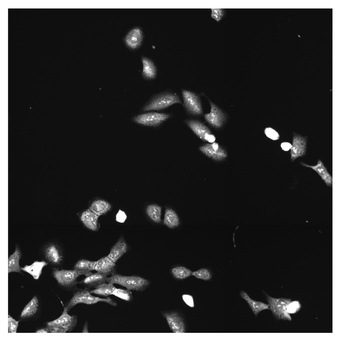
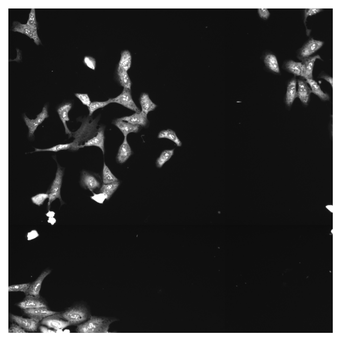
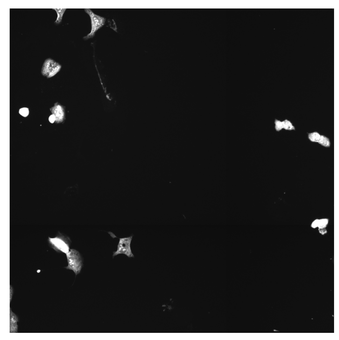
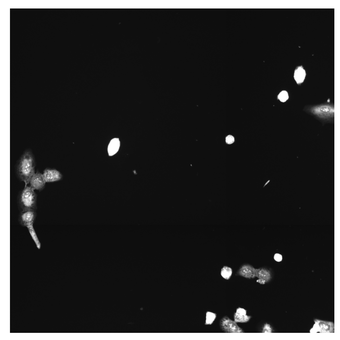
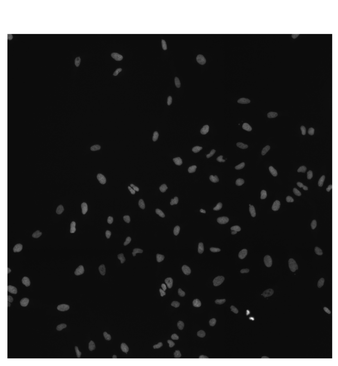
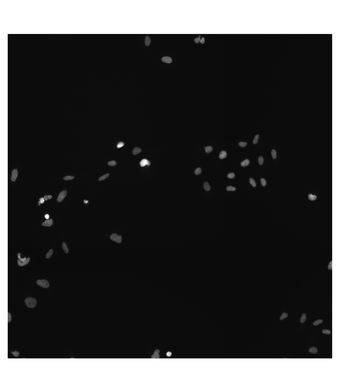
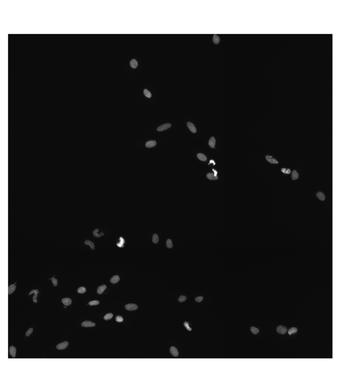
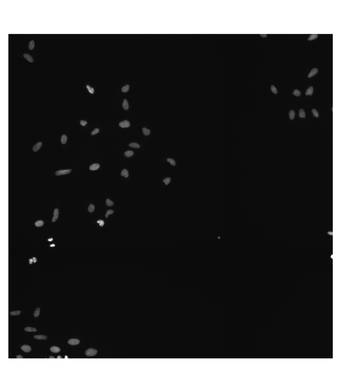
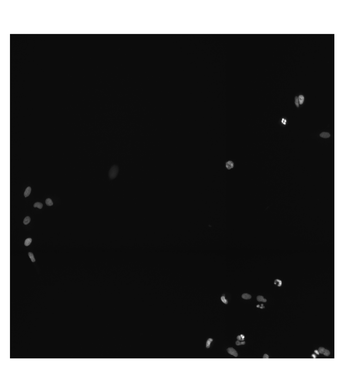
How similar is this gene to the other genes?



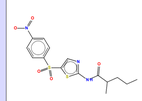
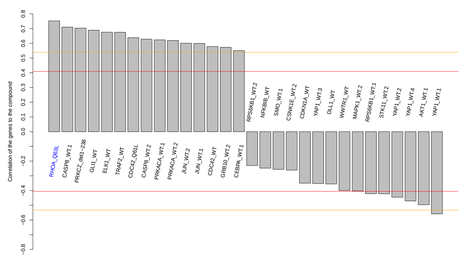
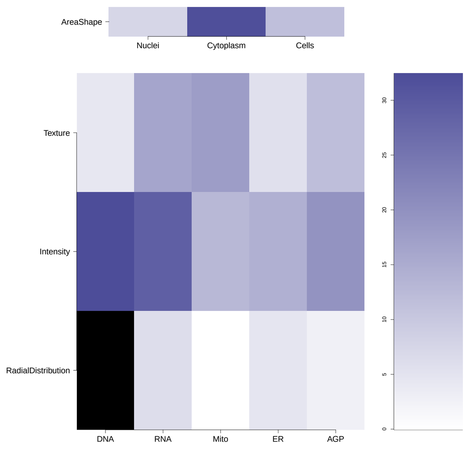
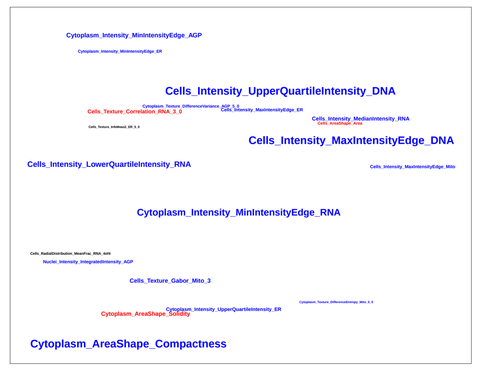
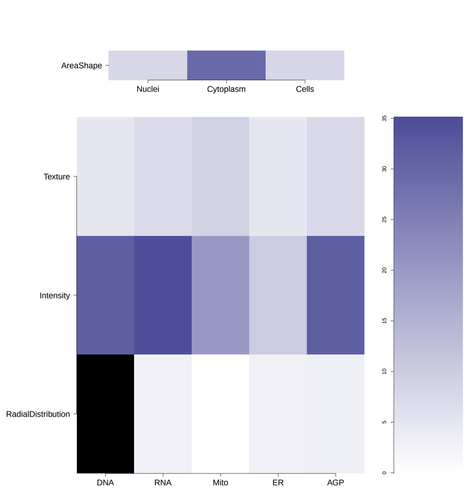
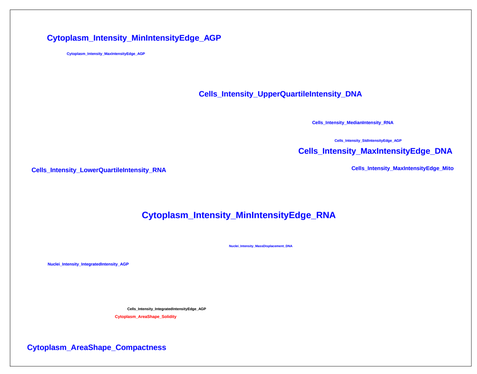
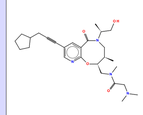
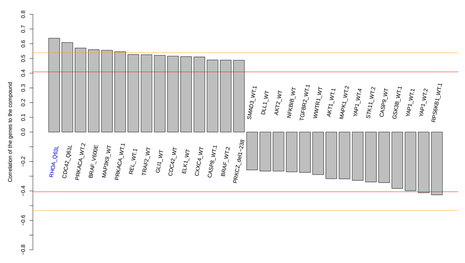
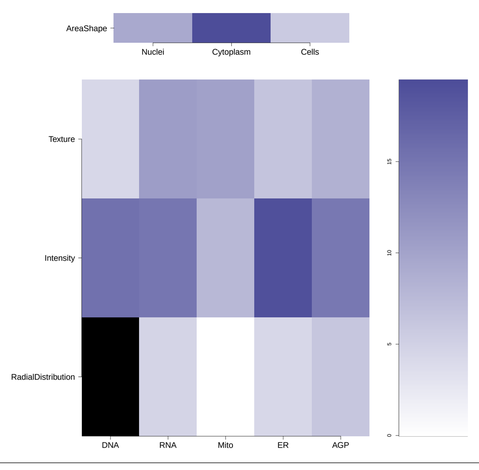
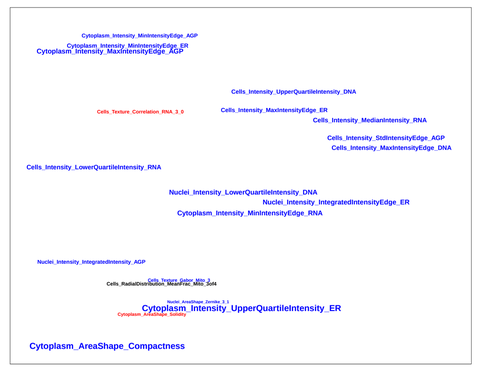
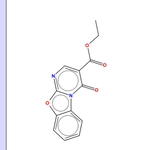
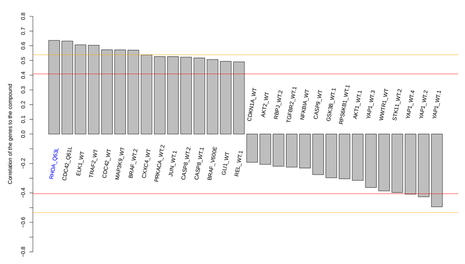
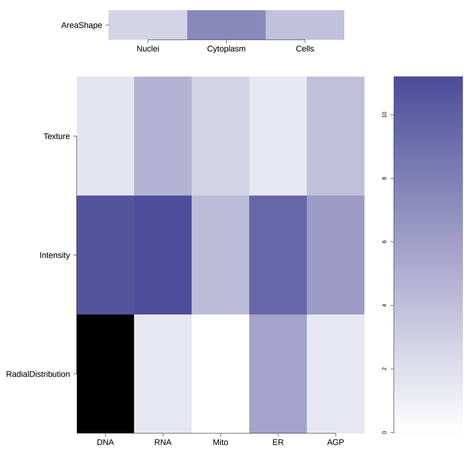
What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

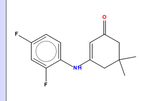
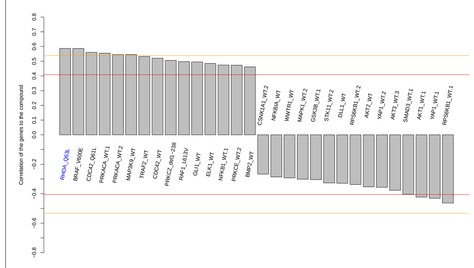
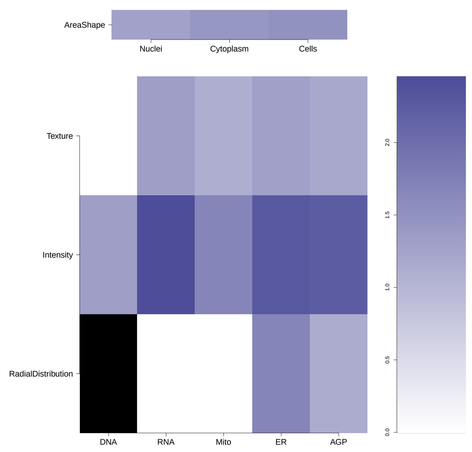
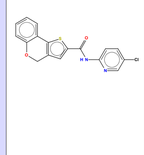
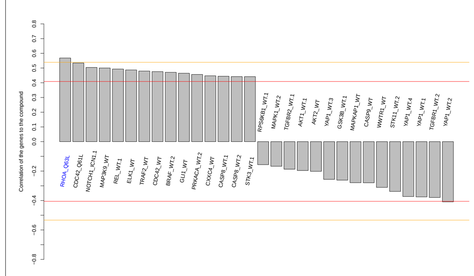
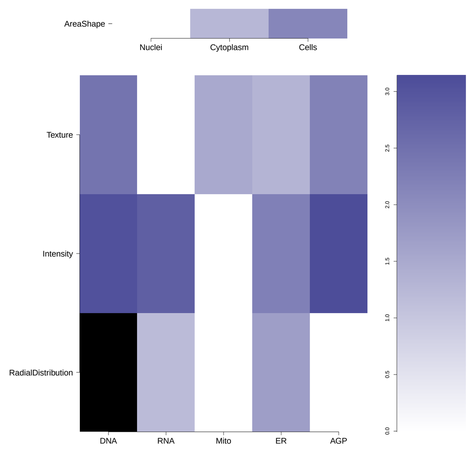
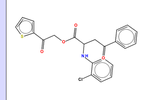
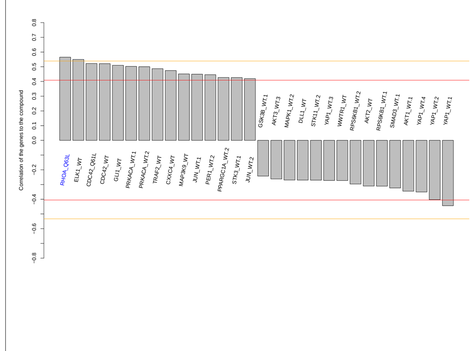
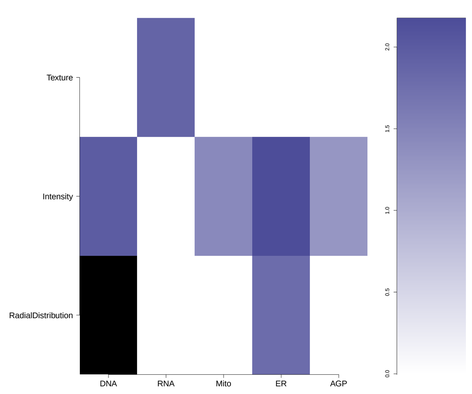
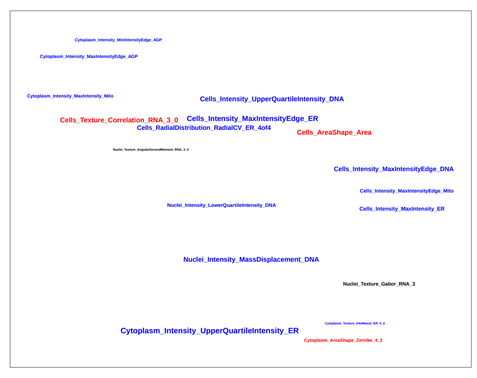
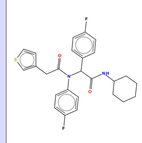
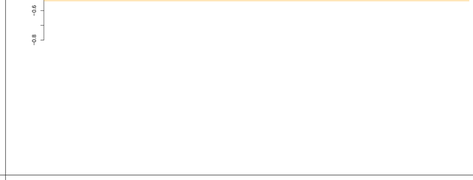
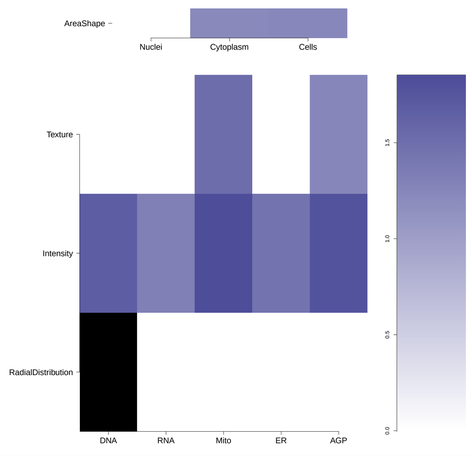
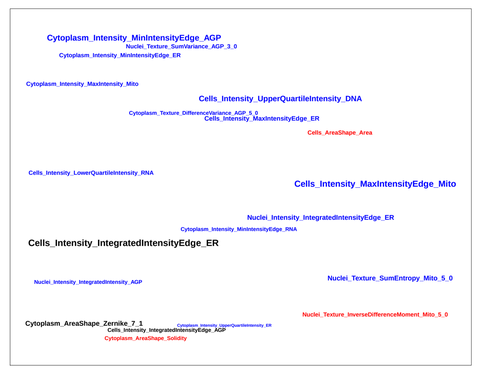
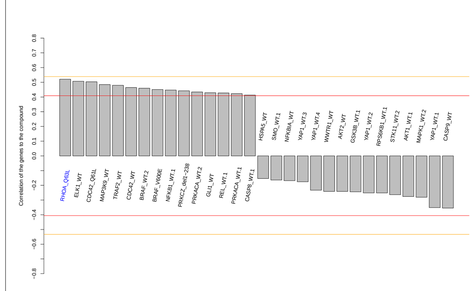
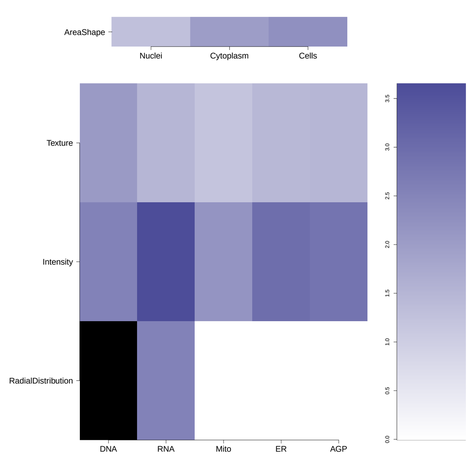


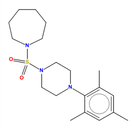
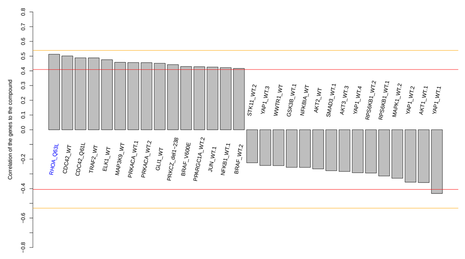
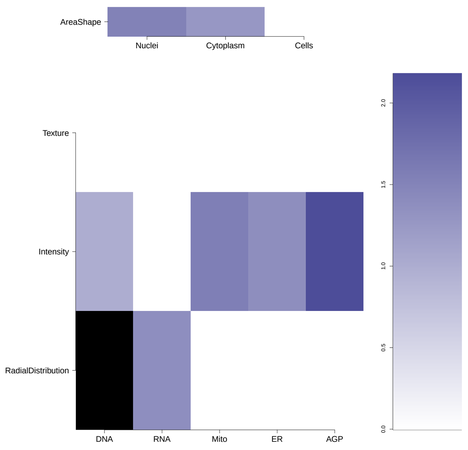
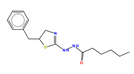
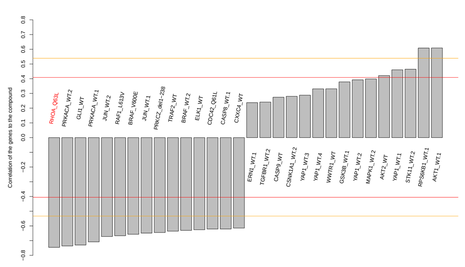
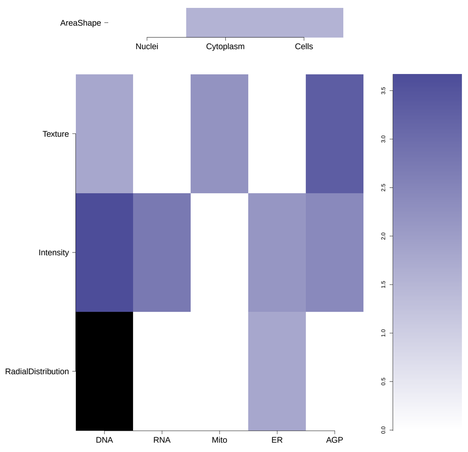
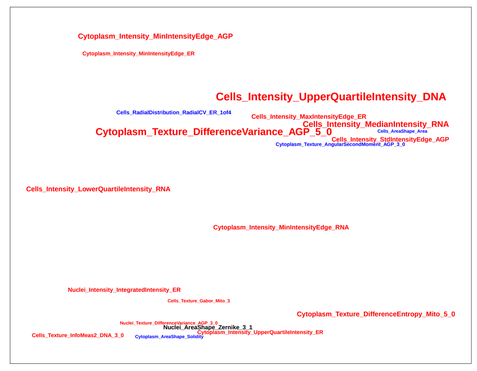
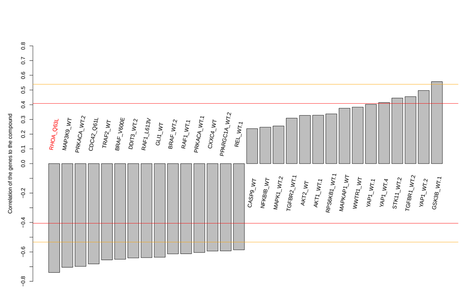
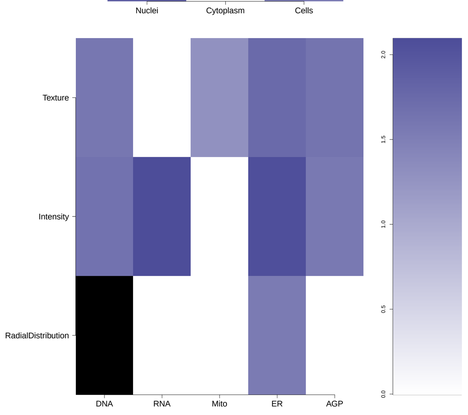
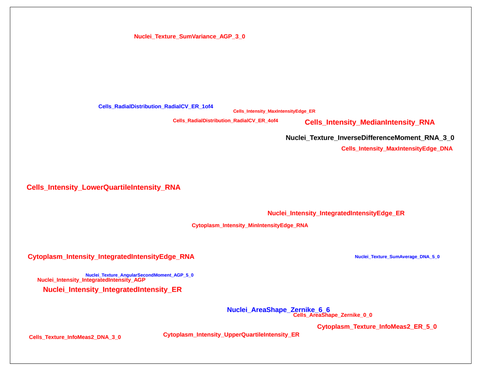
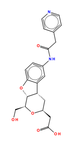
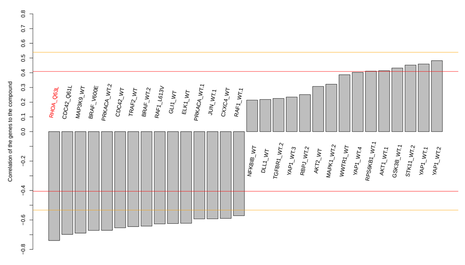
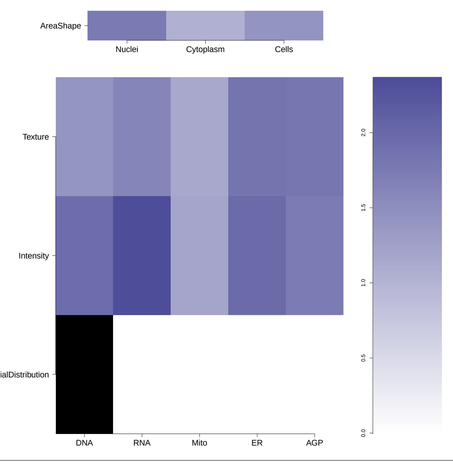
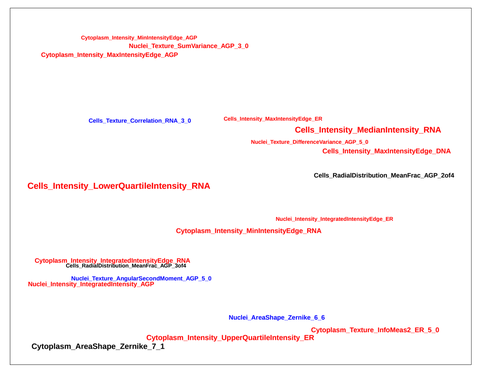
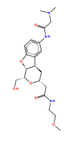
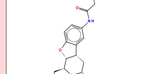
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

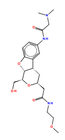
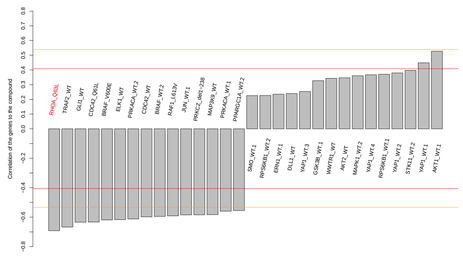
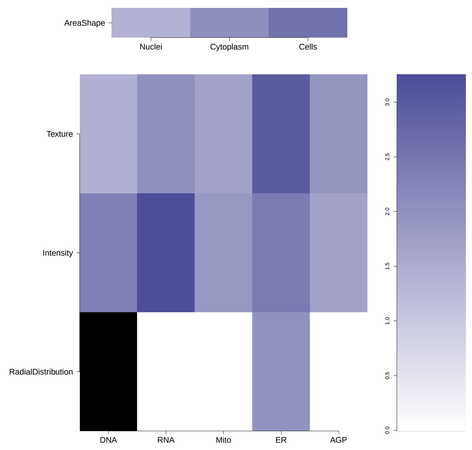
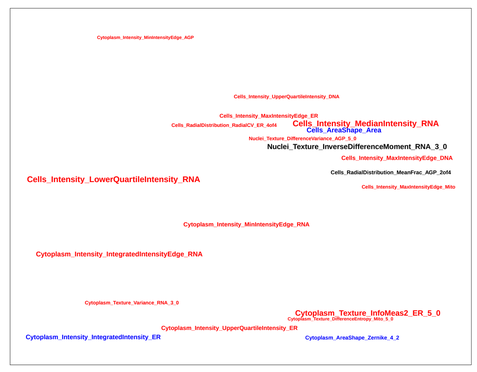
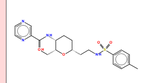
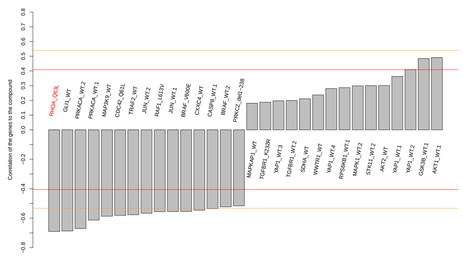
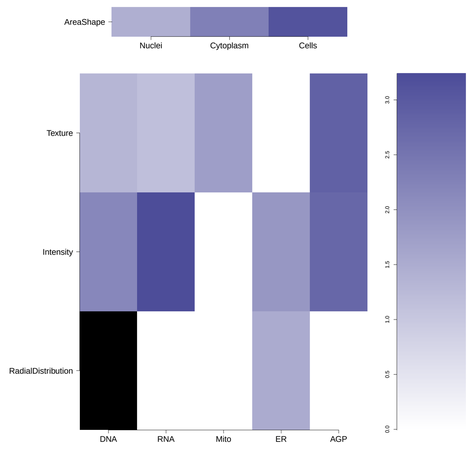
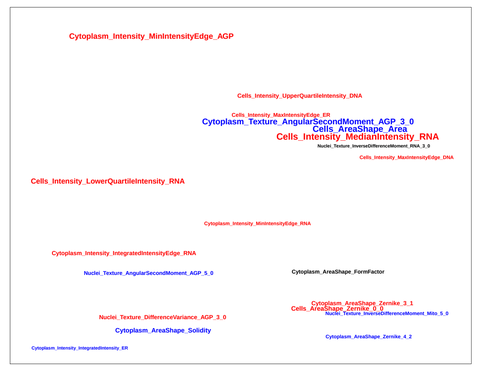
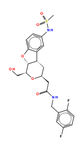
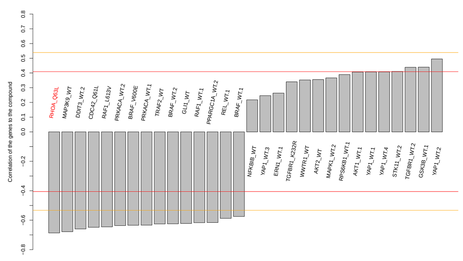
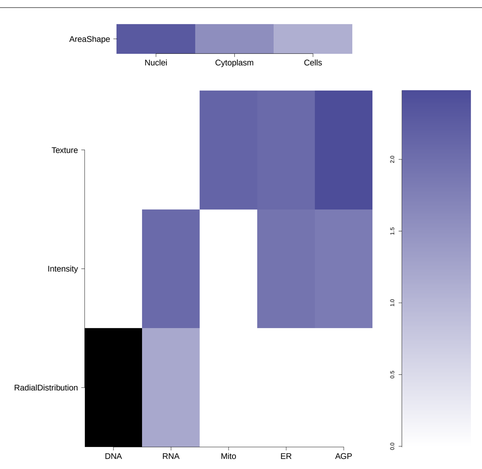
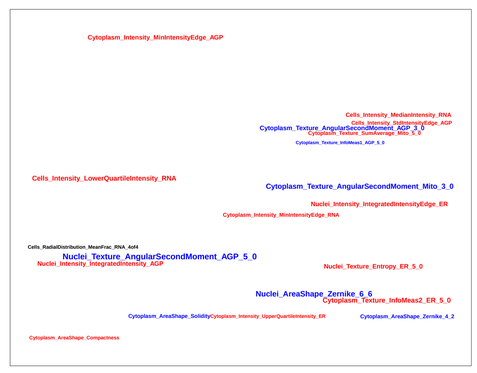
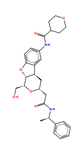
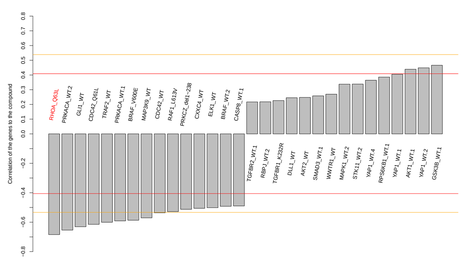
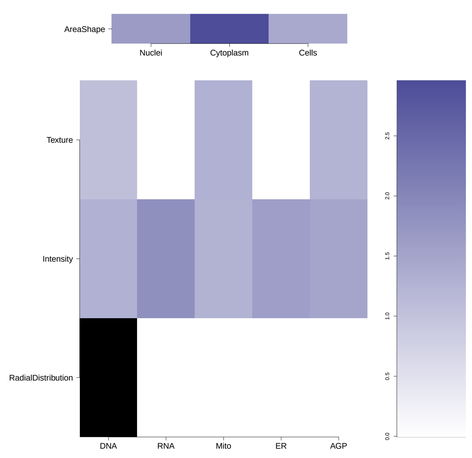
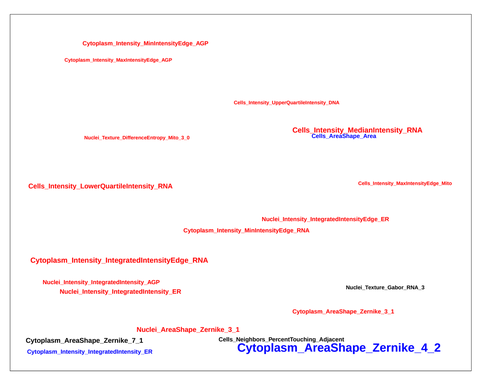
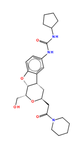
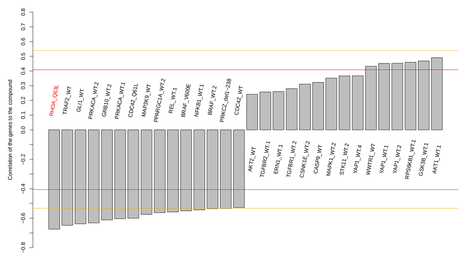
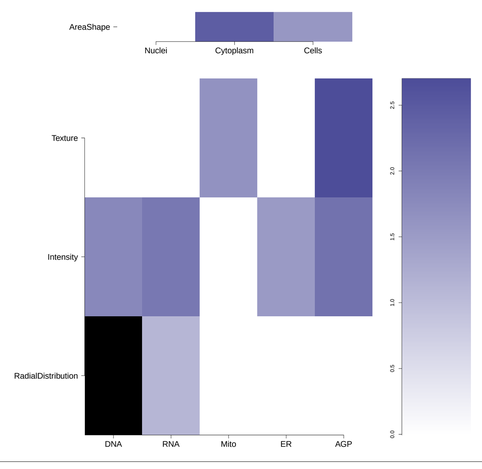
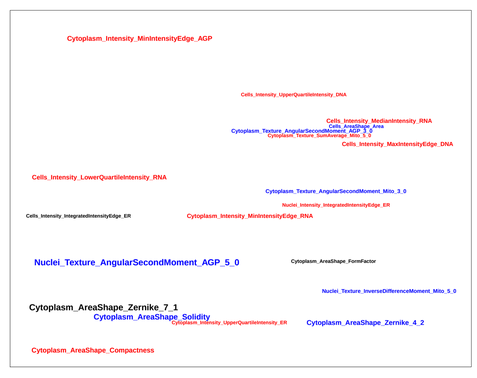
Empty	RHOA_Q63L (41744)	RHOA_Q63L (41755)	RHOA_Q63L (41756)	RHOA_Q63L (41757)	RHOA_Q63L (41754)
RNA						
DNA						

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-A61437901-001-06-4 AC1MELUG MLS001034555 HMS2964O04 STK056804 SMR000664698 ST50589848 PubChem CID : 2905407		0.92 (in 2 replicates)	0.75	NA				Total number of assays tested in: 505. Active in the following assays: • Fluorescence-based primary cell-based high throughput screening assay to identify antagonists of the G-protein coupled receptor 7 (GPR7). (AID 1861) • Luminescence Cell-Based/Microorganism Primary HTS to Identify Inhibitors of T.Cruzi Replication (AID 1885) • Fluorescence-based confirmation cell-based high throughput screening assay to identify antagonists of the G-protein coupled receptor 7 (GPR7). (AID 1952) • Luminescence Cell-Based/Microorganism Dose Confirmation HTS to Identify Inhibitors of T.Cruzi Replication. (AID 2044) • Fluorescence-based counterscreen for antagonists of the G-protein coupled receptor 7 (GPR7): cell-based high throughput screening assay to identify antagonists of the melanin-concentrating hormone receptor 1 (MCHR1). (AID 2148) • Fluorescence-based primary cell-based high throughput screening assay to identify agonists of the Oxytocin Receptor (OXTR). (AID 2435) • Counterscreen for Oxytocin Receptor (OXTR) agonists: Fluorescence-based primary cell-based high throughput assay to identify agonists of the vasopressin 1 receptor (V1R) (AID 2797) • Luminescence-based cell-based primary high throughput screening assay to identify agonists of heterodimerization of the mu 1 (OPRM1) and delta 1 (OPRD1) opioid receptors (AID 504326) • Antagonist of Human D 1 Dopamine Receptor: qHTS (AID 504652) • 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) • Fluorescence-based cell-based primary high throughput screening assay to identify agonists of the human cholinergic receptor, muscarinic 1 (CHRM1) (AID 588814) • Full deck counterscreen for agonists of the human M1 muscarinic receptor (CHRM1): Fluorescence-based cell-based high throughput screening assay to identify nonselective activators and assay artifacts using the parental CHOK1 cell line (AID 602248) • Fluorescence-based cell-based primary high throughput screening assay to identify agonists of the human cholinergic receptor, muscarinic 5 (CHRM5) (AID 624037) • Fluorescence-based cell-based primary high throughput screening assay to identify agonists of the human cholinergic receptor, muscarinic 4 (CHRM4) (AID 624127) • Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human trace amine associated receptor 1 (TAAR1) (AID 624466) • Fluorescence-based cell-based primary high throughput screening assay to identify agonists of the human trace amine associated receptor 1 (TAAR1) (AID 624467) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979) • qHTS for Inhibitors of KCHN2 3.1: Wildtype qHTS (AID 720551) • qHTS for Inhibitors of KCHN2 3.1: Mutant qHTS (AID 720553) • qHTS for Stage-Specific Inhibitors of Vaccinia Orthopoxvirus: mCherry Reporter Primary qHTS (AID 720579)
BRD-K25144184-001-07-5 MLS000703473 SMR000322926 F0440-0373 ZINC04078730 AC1NASUU BDBM69090 HMS2685M05 ZINC4078730 PubChem CID : 4432160		0.64 (in 2 replicates)	0.69	NA				Total number of assays tested in: 640. Active in the following assays: • Luminescence-based primary biochemical high throughput screening assay to identify inhibitors of the Heat Shock Protein 90 (HSP90) (AID 1789) • Aqueous Solubility from MLSMR Stock Solutions (AID 1996) • Cell-Free Homogeneous Primary HTS to Identify Inhibitors of GSK3beta Activity (AID 2097) • Luminescence Cell-Free Homogenous Primary HTS to Identify Inhibitors of GSK-3 alpha (AID 2650) • Luminescence Cell-Free Homogeneous Dose Retest to Identify Inhibitors of Glycogen Synthase Kinase-3 beta Activity (AID 434954) • Inhibition of Human GSK-3 beta Activity Measured in Biochemical System Using Microfluidics - 2063-05_Inhibitor_Dose_DryPowder_Activity_Set2 (AID 588429) • Inhibition of Human CDK5 Activity Measured in Biochemical System Using Microfluidics - 2063-07_Inhibitor_Dose_DryPowder_Activity (AID 588430) • Inhibition of Human GSK-3 alpha Activity Measured in Biochemical System Using Microfluidics - 2063-06_Inhibitor_Dose_DryPowder_Activity_Set2 (AID 588434) • Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the Galanin Receptor 3 (GalR3) (AID 651719) • Fluorescence-based cell-based primary high throughput confirmation assay to identify antagonists of the Galanin Receptor 3 (GalR3) (AID 652245) • Luminescent GLuc Reporter Gene Assay Primary HTS to Identify Small Molecule Activator of Glucose Dependent Insulin Secretion Measured in Cell-Based System Using Plate Reader - 7055-01_Activator_SinglePoint_HTS_Activity (AID 743287)
BRD-K48012250-001-01-9 PubChem CID : 54619340		0.63 (in 4 replicates)	0.64	0.310				Total number of assays tested in: 40. Active in the following assays: • Whole cell Yeast HTS to identify compounds modulating the fidelity of the start codon recognition in eukaryotes. Measured in Whole Organism System Using Plate Reader - 2155-01_Other_SinglePoint_HTS_Activity (AID 602363)
BRD-K97424736-001-06-9 ZINC00366916 AC1LHJBH MLS001178679 HMS2845M21 ZINC366916 SMR000477411 PubChem CID : 838857		0.57 (in 2 replicates)	0.64	NA				Total number of assays tested in: 494. Active in the following assays: • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • Luminescence Microorganism Primary HTS to Identify Inhibitors of the SUMOylation Pathway Using a Temperature Sensitive Growth Reversal Mutant Mot1-301 (AID 2716)

BRD-K37211799-001-06-7 SMR000105318 MLS000109375 ST037344 AC1LC7O8 BDBM68651 HMS2308O10 ZINC127964 STK795094 ZINC00127964 PubChem CID : 549453		0.77 (in 4 replicates)	0.59	NA				Total number of assays tested in: 763. Active in the following assays: • Fluorescence Cell-Free Homogeneous Primary HTS to Identify Inhibitors of the RanGTP-Importin-beta complex (AID 2216) • qHTS of PTHR Inhibitors: Primary Screen (AID 743266)
BRD-K23940360-001-05-8 MLS000731532 HMS2744D15 ZINC5050928 CCG-136395 SMR000309807 PubChem CID : 16195347		0.63 (in 2 replicates)	0.57	NA				Total number of assays tested in: 576. Active in the following assays: • MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) • Fluorescence Cell-Free Homogeneous Primary HTS to Identify Inhibitors of the RanGTP-Importin-beta complex (AID 2216) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • qHTS Assay for Identifying a Potential Treatment of Ataxia-Telangiectasia (AID 485349) • Luminescence-based cell-based primary high throughput screening assay to identify biased ligands of the melanocortin 4 receptor (MC4R): agonists of MC4R (AID 540308) • uHTS identification of DNMT1 inhibitors in a Fluorescent Molecular Beacon assay (AID 588458) • Fluorescence-based biochemical primary high throughput screening assay to identify inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 588726) • Luminescence-based cell-based high throughput confirmation assay for biased ligands (agonists) of the melanocortin 4 receptor (MC4R) (AID 602192) • qHTS Assay to Identify Small Molecule Activators of BRCA1 Expression (AID 624202) • uHTS identification of SKN-1 Inhibitors in a fluoresence assay (AID 624304) • Counterscreen for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis: Fluroescence-based biochemical high throughput Glycerophosphate Dehydrogenase-Triosephosphate Isomerase (GDH-TPI) assay to identify assay artifacts (AID 652141) • HTS for Bacterial rRNA inhibitors Measured in Microorganism-Based System Using Plate Reader - 7056-01_Inhibitor_SinglePoint_HTS_Activity (AID 720706)
BRD-A96875824-001-06-8 MLS000576285 STK286148 SMR000197925 AC1MGC3Z BDBM63137 HMS2419L03 PubChem CID : 2933627		0.65 (in 4 replicates)	0.57	NA				Total number of assays tested in: 661. Active in the following assays: • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • Screen for Chemicals that Inhibit the RAM Network (AID 868) • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490) • Luminescence-based primary biochemical high throughput screening assay to identify inhibitors of the Heat Shock Protein 90 (HSP90) (AID 1789) • MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) • Luminescence-based confirmation biochemical high throughput screening assay for inhibitors of the Heat Shock Protein 90 (HSP90) (AID 1846) • Luminescence-based counterscreen assay for HSP90 inhibitors: biochemical high throughput screening assay to identify inhibitors of native luciferase. (AID 1847) • Luminescence Cell-Based Primary HTS to Identify Inhibitors of Heat Shock Factor 1 (HSF1). (AID 2098) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • Luminescence Cell-Based Dose Confimation HTS to Identify Inhibitors of Heat Shock Factor 1 (HSF1) (AID 2382) • Primary cell-based screen for identification of compounds that inhibit the two-pore domain potassium channel KCNK9 (AID 488922) • Confirmatory screen for identification of compounds that inhibit the two-pore domain potassium channel (KCNK9) (AID 492992) • Second counter screen for compounds that modulate the two-pore domain potassium channel (KCNK9) (AID 492997) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • qHTS Assay for Inhibitors of Mammalian Selenoprotein Thioredoxin Reductase 1 (TrxR1): qHTS (AID 588453) • Primary biochemical fluorescence polarization-based high throughput screening assay to identify inhibitors of protein arginine methyltransferase 1 (PRMT1) (AID 652257)
BRD-A32683230-001-06-1 SMR000173233 ASN 05989451 AC1ML6NM MLS000552920 MLS002536544 HMS2472K11 PubChem CID : 3215244		0.53 (in 4 replicates)	0.53	NA				Total number of assays tested in: 671. Active in the following assays: • Luminescence Cell-Based/Microorganism Primary HTS to Identify Inhibitors of T.Cruzi Replication (AID 1885)
BRD-K42388113-001-06-5 MLS000591006 STK565523 SMR000217743 AC1OAX5K BDBM45583 STK999678 ZINC15986295 PubChem CID : 6868097		0.56 (in 4 replicates)	0.52	NA				Total number of assays tested in: 628. Active in the following assays: • Factor XIIa 1536 HTS (AID 800) • MLPCN Streptokinase Expression Inhibition (AID 1662) • Luminescence Microorganism-Based Dose Confirmation HTS to Identify Compounds Cytotoxic to SK(-)GAS Group A Streptococcus (AID 1900) • Luminescence Microorganism-Based Dose Confirmation HTS to Identify Inhibitors of Streptokinase Promotor Activity (AID 1902) • Luminescence Microorganism-Based Dose Response HTS to Identify Compounds Cytotoxic to Streptococcus (AID 1915) • HTS using DiI-HDL to assay lipid transfer in ldlA[SR-BI] cells Measured in Cell-Based System Using Plate Reader - 2085-01_Inhibitor_SinglePoint_HTS_Activity (AID 488896) • uHTS identification of small molecule Triacylglycerol inhbitors in a fluoresence assay (AID 651582) • Single concentration confirmation of small molecule Triacylglycerol inhbitors in a fluoresence assay (AID 651629) • Small Molecule Inhibitors of FGF22-Mediated Excitatory Synaptogenesis and Epilepsy Measured in Biochemical System Using RT-PCR - 7012-01_Inhibitor_SinglePoint_HTS_Activity (AID 651658) • 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-K19368354-001-06-4 SMR000082230 AC1M3F6G MLS000100236 MLS002548559 HMS2279B19 ZINC2884431 ZINC02884431 ST50753752 F3083-0201 PubChem CID : 2236768		0.53 (in 4 replicates)	0.51	NA				Total number of assays tested in: 789. Active in the following assays: • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • Screen for Chemicals that Inhibit the RAM Network (AID 868) • Chemical Genetic Screen to Identify Inhibitors of Mitochondrial Fusion - Primary Screen (AID 1362) • Primary cell-based high-throughput screening assay to identify agonists of the transient receptor potential channel ML3 (TRPML3) (AID 1448) • Counterscreen assay for TRPML3 agonists: cell-based high-throughput screening assay to identify agonists of the transient receptor potential channel N1 (TRPN1) (AID 1525) • Confirmation cell-based high-throughput screening assay for agonists of the transient receptor potential channel ML3 (TRPML3) (AID 1526) • Primary cell-based high-throughput screening assay for identification of compounds that inhibit KCNQ1 potassium channels (AID 2642) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 48 hour incubation (AID 504832) • Validation (re-confirmation) assay for identification of compounds that inhibit KCNQ1 potassium channels (AID 588353) • Primary cell-based high-throughput screening for identification of compounds that inhibit/block calcium-activated chloride channels (TMEM16A) (AID 588511) • uHTS identification of small molecule inhibitors of the mitochondrial permeability transition pore via an absorbance assay (AID 602449) • Primary cell-based high-throughput screening for identification of compounds that activate/potentiate calcium-activated chloride channels (TMEM16A) (AID 623877) • qHTS of GLP-1 Receptor Inverse Agonists (Inhibition Mode) (AID 624417) • Dose response confirmation of uHTS inhibitor hits of the mitochondrial permeability transition pore via a fluorescent based counterscreen assay (AID 651564) • Specificity screen against KCNQ2 for identification of compounds that inhibit KCNQ1 potassium channels (AID 651746) • Specificity screen against KCNQ1/KCNE1 for identification of compounds that inhibit KCNQ1 potassium channels (AID 652147) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)
BRD-A90037676-001-05-2 AC1MNLZO MLS000678997 HMS2738D22 SMR000323385 F0762-0511 PubChem CID : 3354871		NA (in 1 replicates)	-0.75	NA				Total number of assays tested in: 622. Active in the following assays: • Aqueous Solubility from MLSMR Stock Solutions (AID 1996) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)
BRD-K42959654-001-01-9 PubChem CID : 54646040		NA (in 1 replicates)	-0.74	0.054				Total number of assays tested in: 42.
BRD-K74659043-001-01-6 PubChem CID : 54646039		NA (in 1 replicates)	-0.74	0.852				Total number of assays tested in: 41.
BRD-K58469266-001-01-0 PubChem CID : 54646063		NA (in 1 replicates)	-0.71	0.668				Total number of assays tested in: 39.
BRD-K32797868-001-01-7 PubCh em CID : 54641357		NA (in 1 replicates)	-0.69	NA				Total number of assays tested in: 43.

BRD-K84787606-001-01-2 PubChem CID : 54646041		NA (in 1 replicates)	-0.69	0.171				Total number of assays tested in: 40.
BRD-K52525325-001-01-4 PubChem CID : 54641100		NA (in 1 replicates)	-0.69	NA				Total number of assays tested in: 37.
BRD-K76988892-001-01-9 PubChem CID : 54646031		NA (in 1 replicates)	-0.69	0.421				Total number of assays tested in: 41.
BRD-K61437861-001-01-1 PubChem CID : 54646478		0.80 (in 3 replicates)	-0.68	0.396				Total number of assays tested in: 36.
BRD-K96634415-001-01-3 PubChem CID : 54646028		NA (in 1 replicates)	-0.67	0.637				Total number of assays tested in: 38.