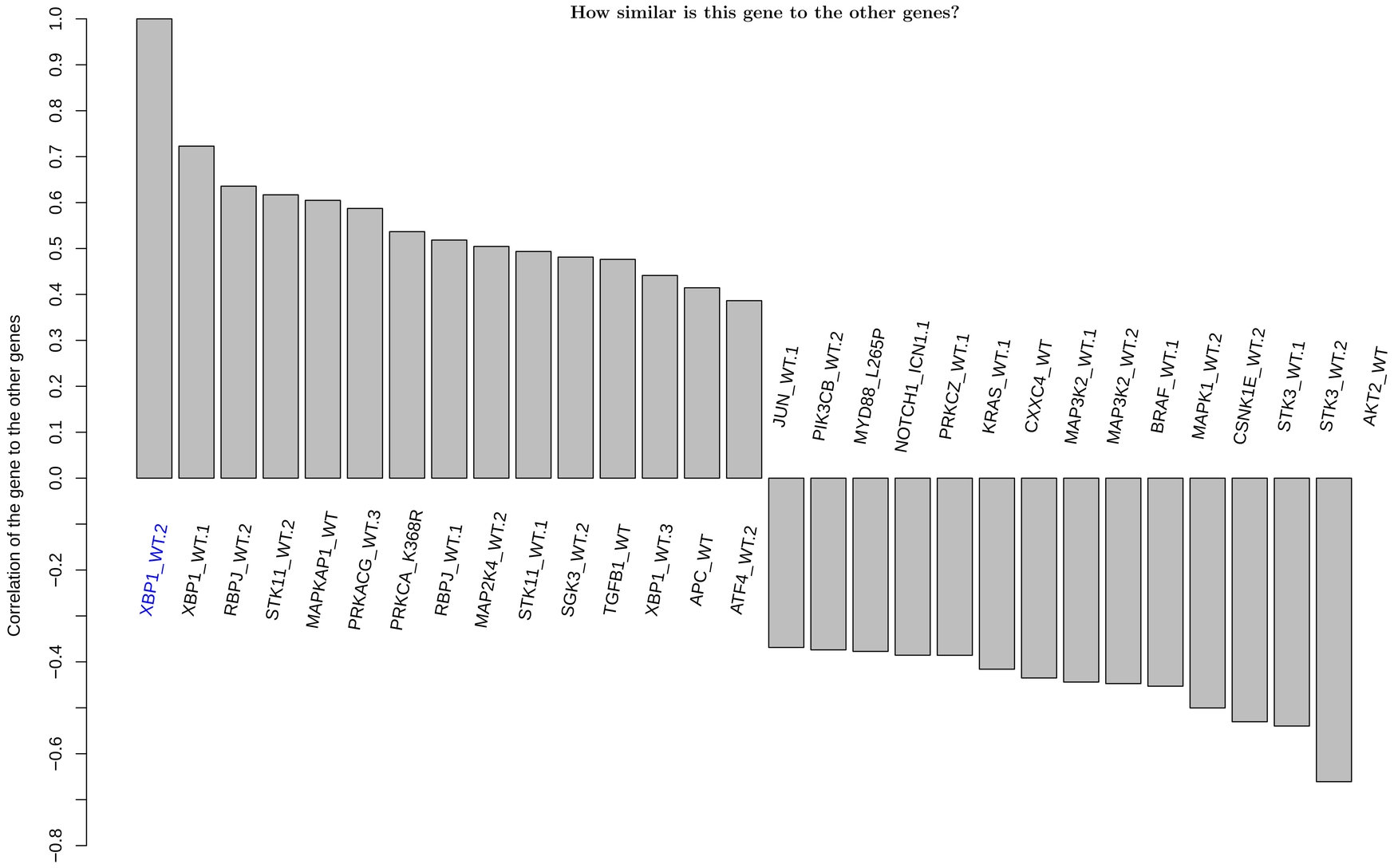
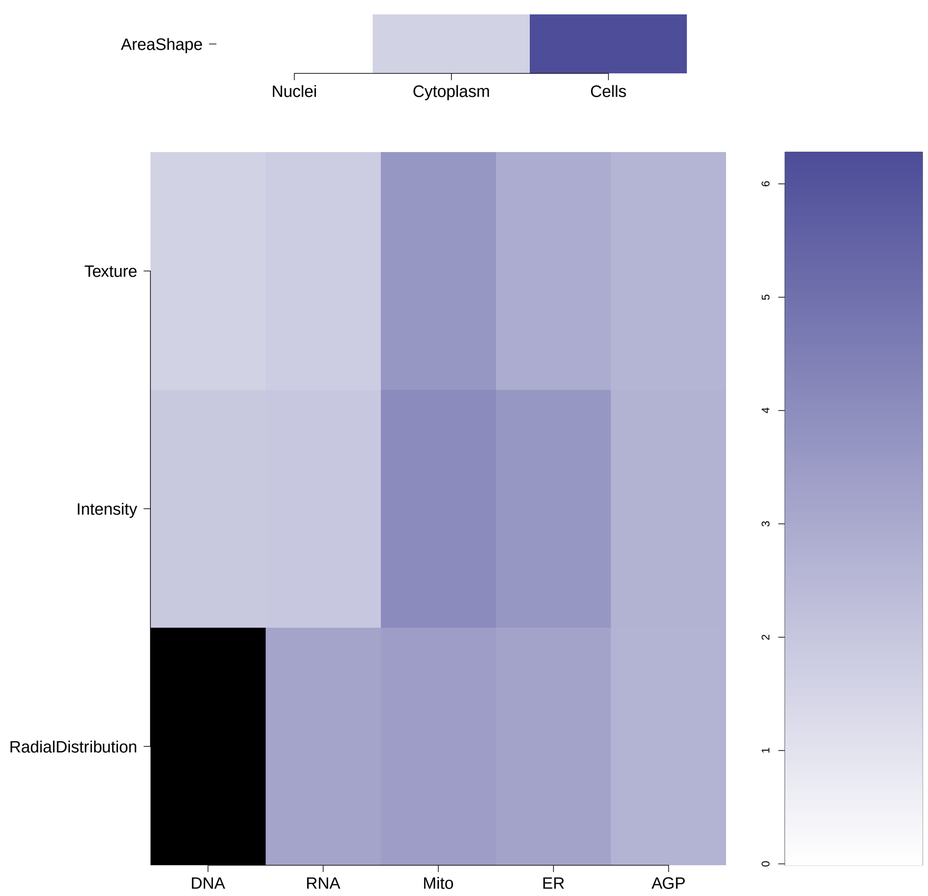
XBP1_WT.2 - in Canonical ER Stress/UPR

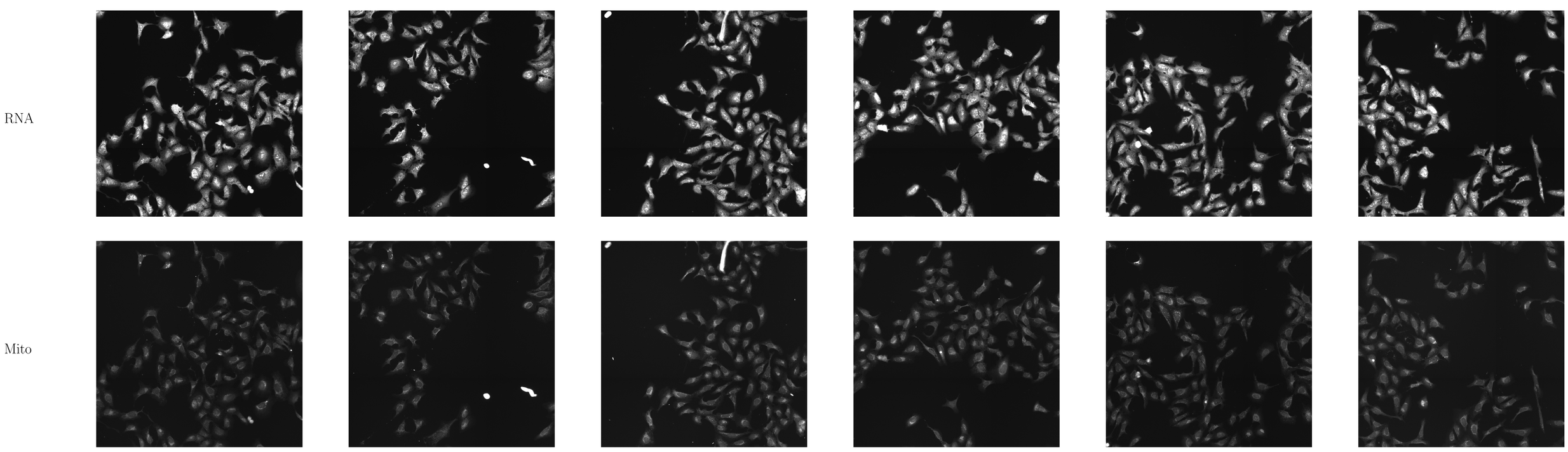
How similar is this gene to the other genes?



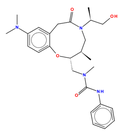
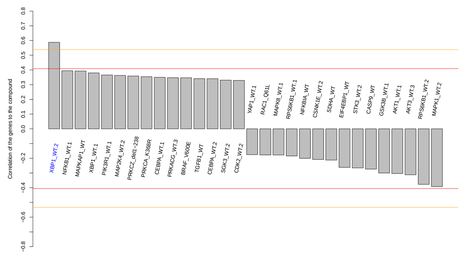
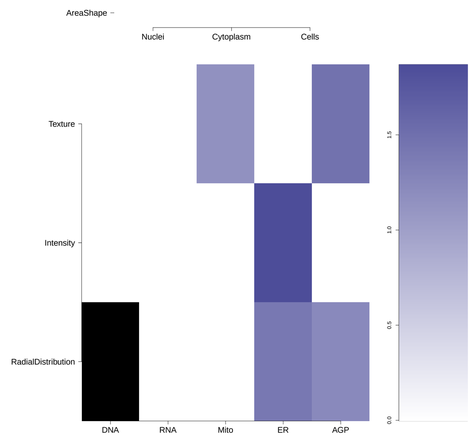
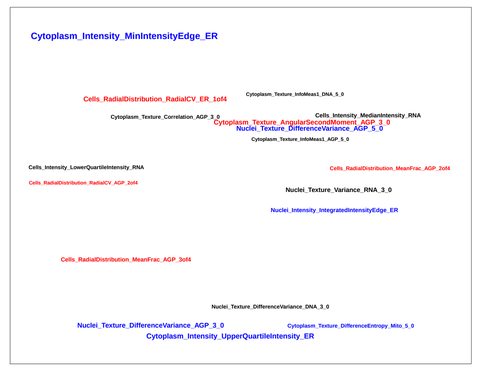
What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

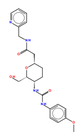
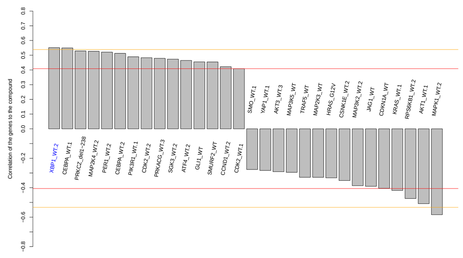
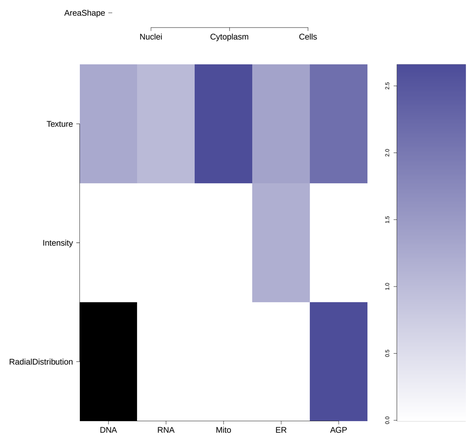
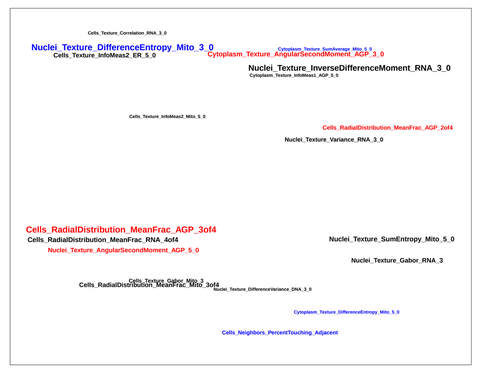
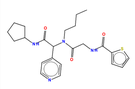
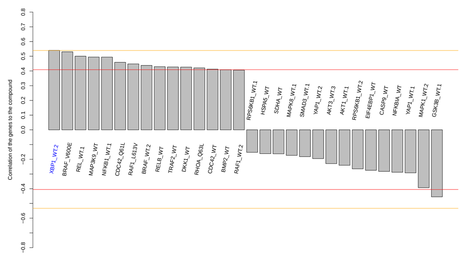
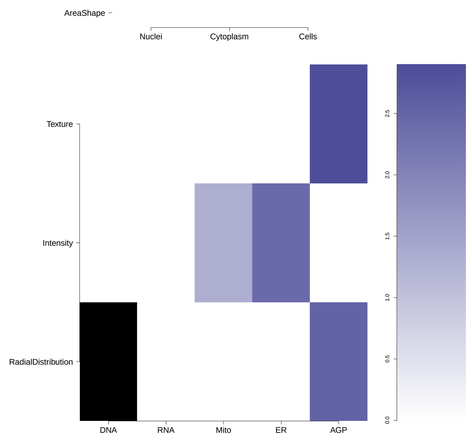
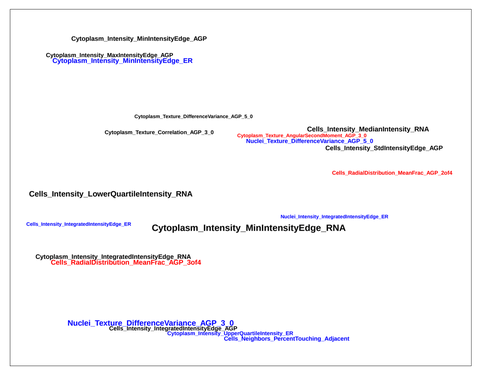
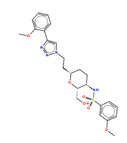
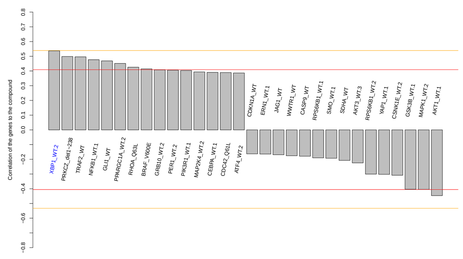
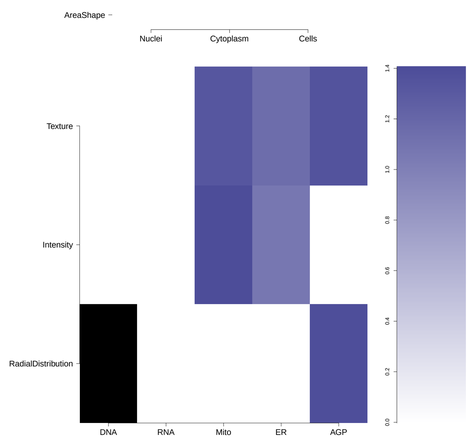
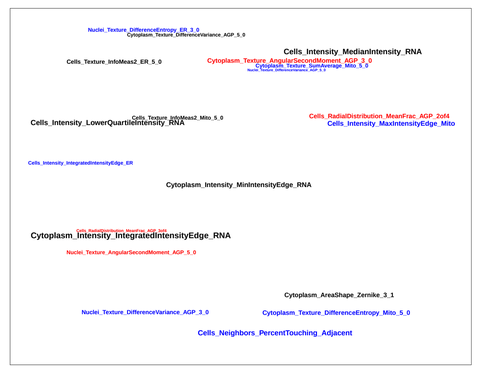
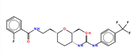
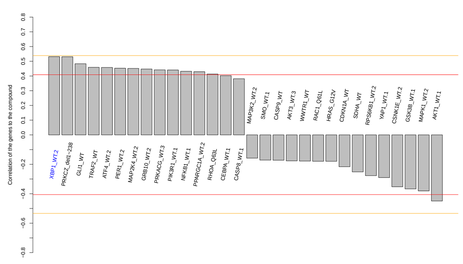
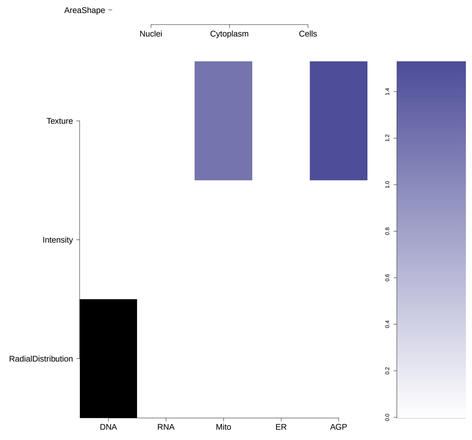
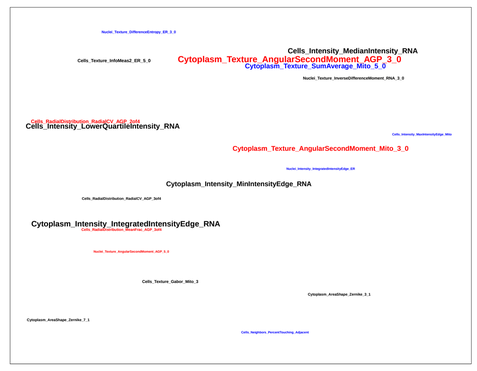


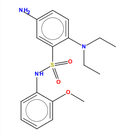
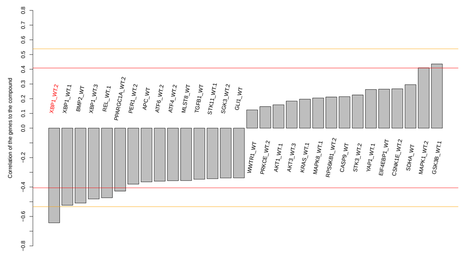
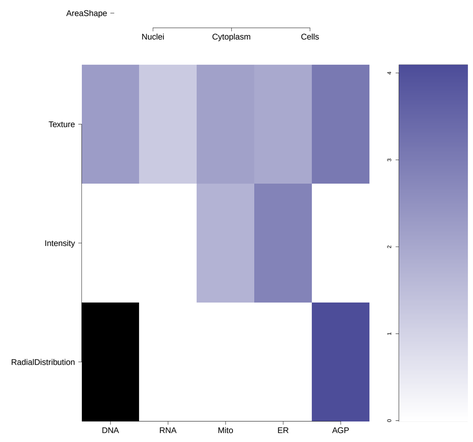
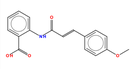
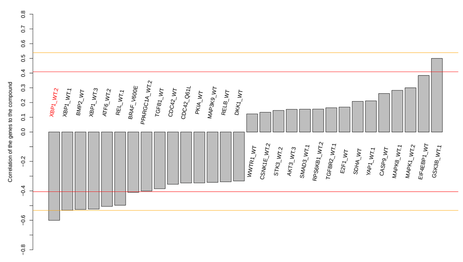
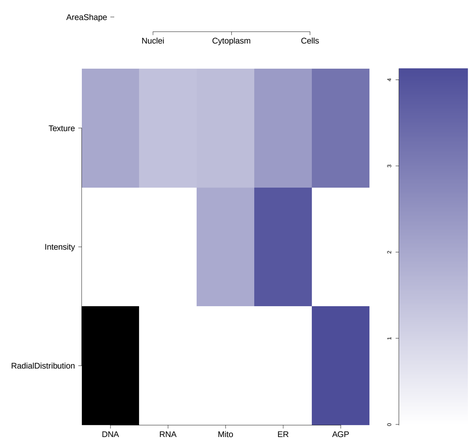
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

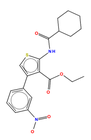
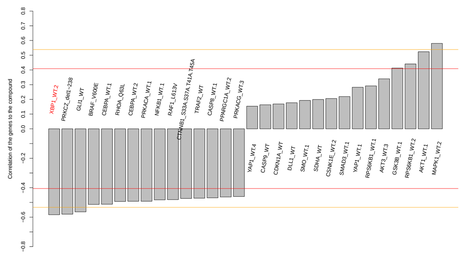
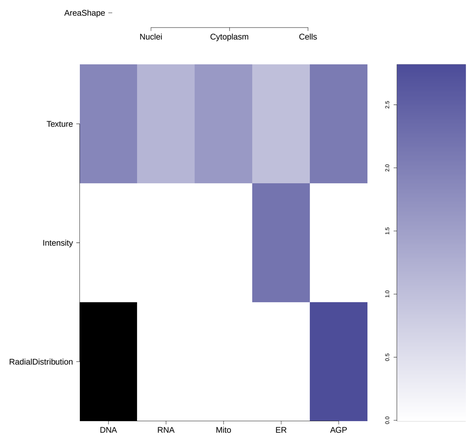
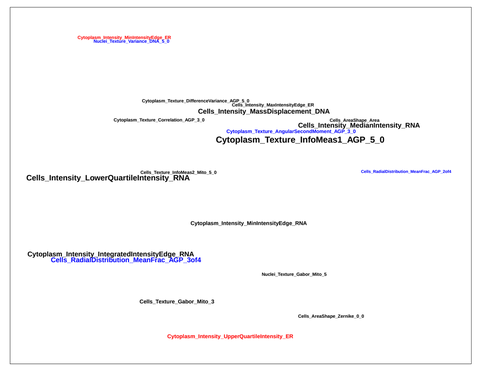
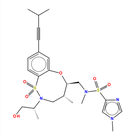
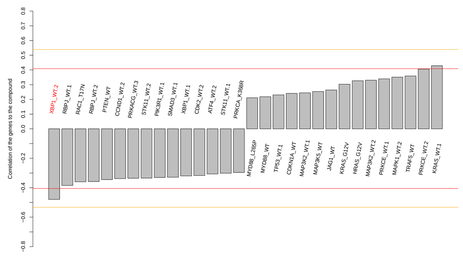
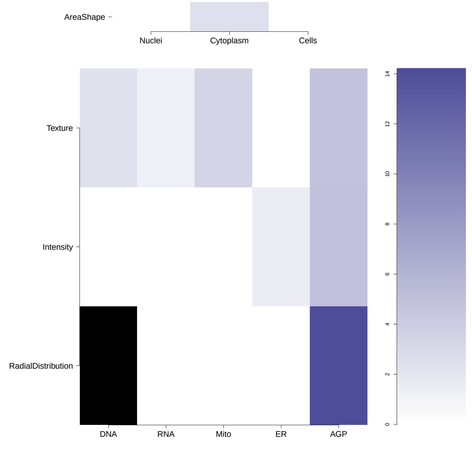
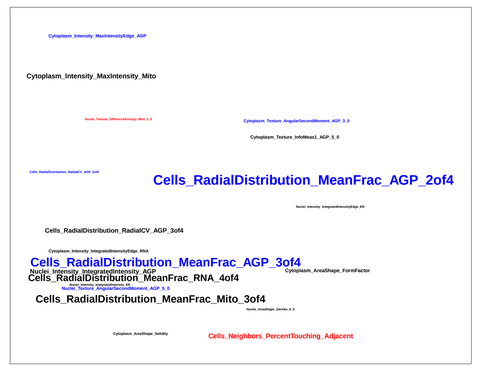
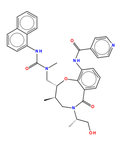
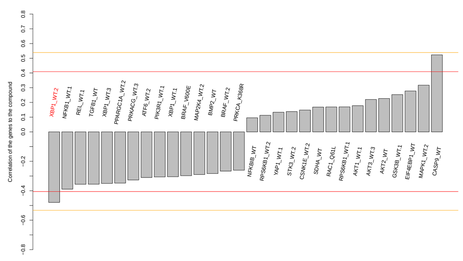
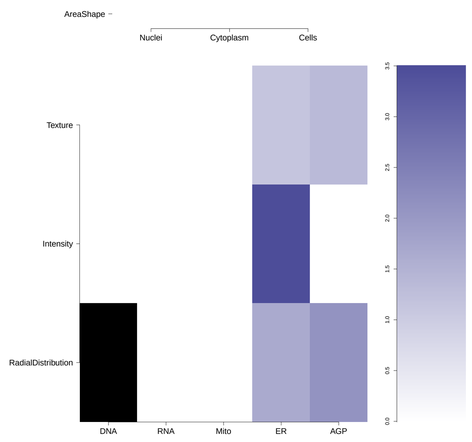
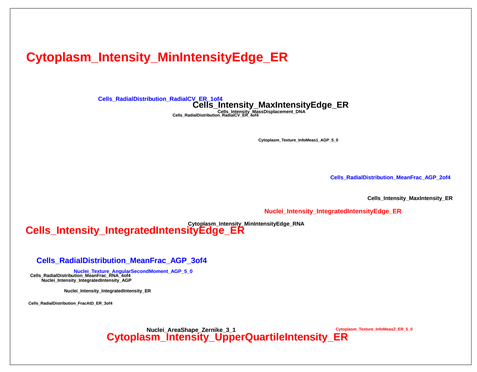
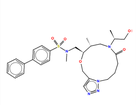
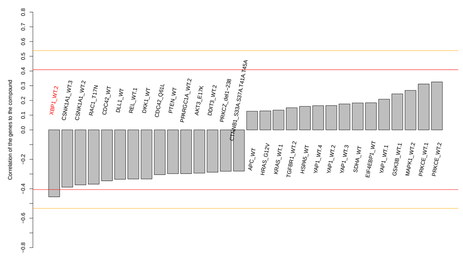
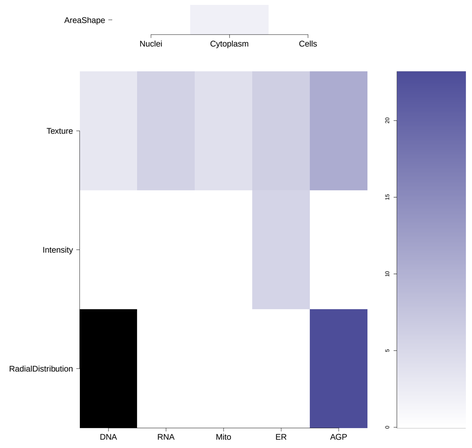
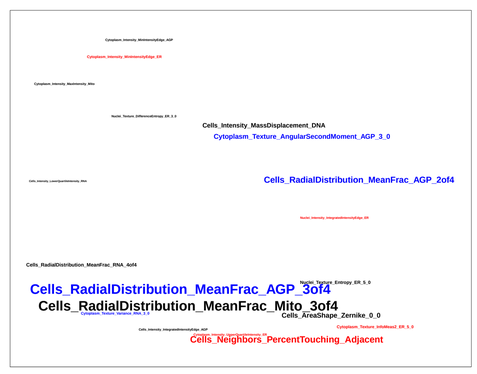
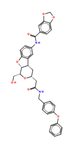
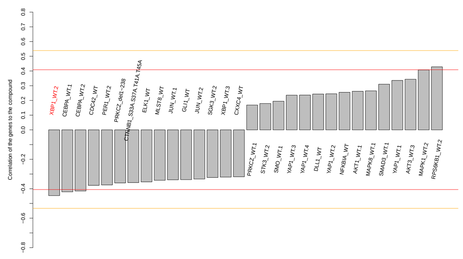
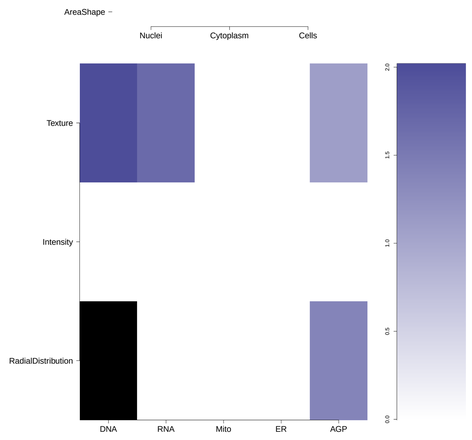
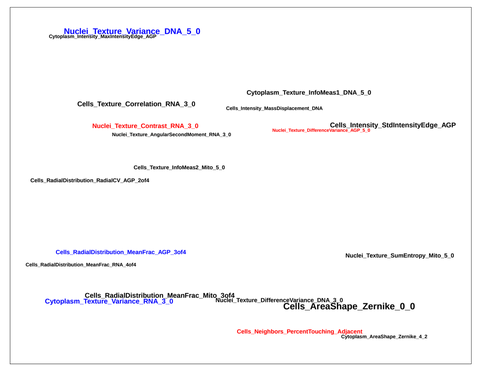
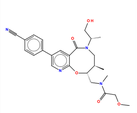
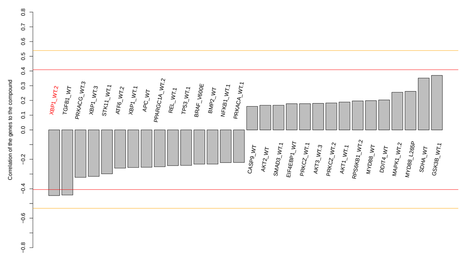
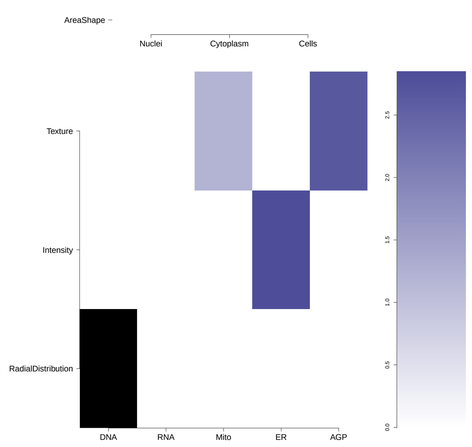
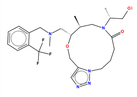
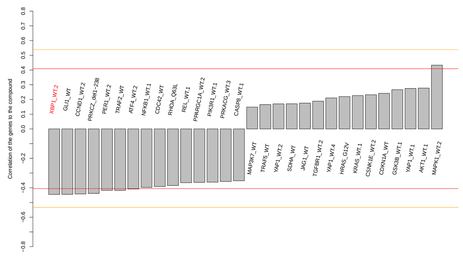
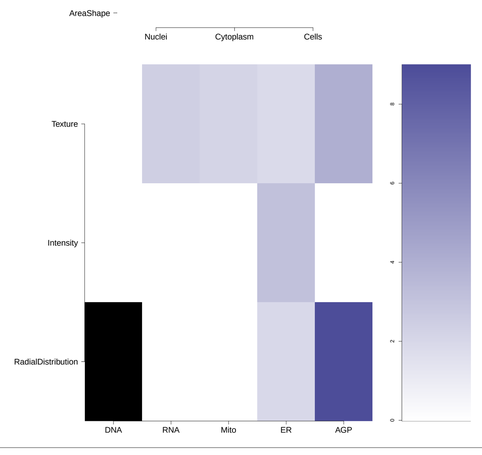


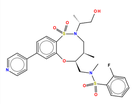
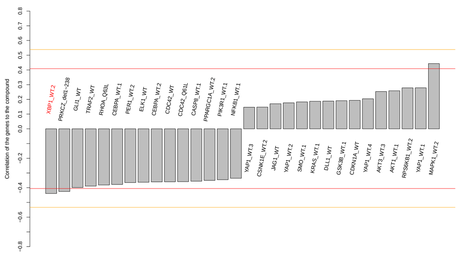
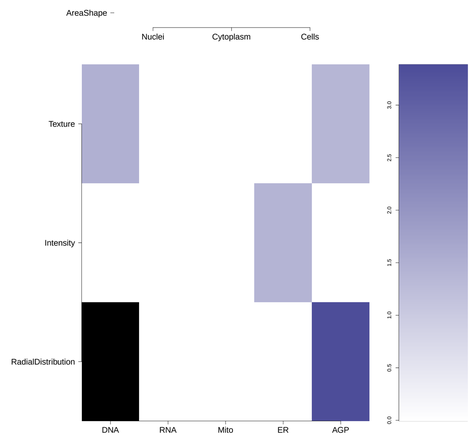
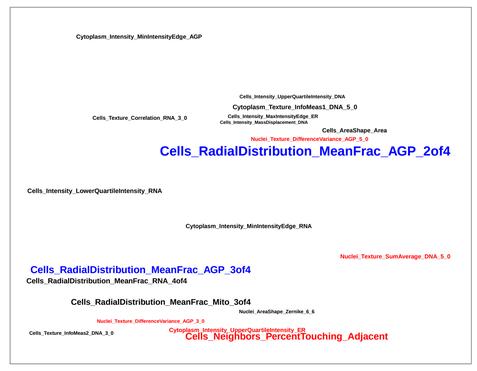
Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.51)	Correlation between compound the gene	Compound rank when scored against the gene using L1000 profiling	How similar is the compound signature to the genes in this experiment? (Yellow and red lines correspond to top/bottom 1st and 5th percentile DMSO correlation to all the genes)	Common distinguishing feature categories in the compound and the gene relative to the untreated samples	Distinguishing individual features for the compound relative to untreated samples. Black means a mismatch; i.e. active (= high z-score in magnitude) in the compound, and either inactive (= small z-score in magnitude) or oppositely active in the gene	Number of PubChem assays in which the compound was tested; assays in which the compound was active are itemized

BRD-K09842906-001-01-4 PubChem CID : 44491566		0.53 (in 3 replicates)	0.59	0.903				Total number of assays tested in: 45.
BRD-K27627436-001-05-7 T5670226 MLS000568596 AC1O0OWO HMS2308D09 ZINC5128253 ZINC05128253 SMR000154673 PubChem CID : 5997879		NA (in 1 replicates)	0.58	NA				Total number of assays tested in: 690. Active in the following assays: • Human H69AR Lung Tumor Cell Growth Inhibition Assay - 86K Screen (AID 598) • Human Lung Fibroblast Proliferation Assay (AID 719) • Modulators of Post-Golgi Transport (AID 739) • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • High Throughput Screen to Identify Compounds that Suppress the Growth of Human Colon Tumor Cells Lacking Oncogenic Beta Catenin Expression (AID 818) • Human Fibroblast Cell Proliferation Assay - Dose Response (AID 821) • Human Endothelial Cell Proliferation Assay - Dose Response (AID 822) • High Throughput Screen to Identify Compounds that Suppress the Growth of Cells with a Deletion of the PTEN Tumor Suppressor (AID 827) • High Throughput Screen to Identify Compounds that Suppress the Growth of Human Colon Tumor Cells Lacking Oncogenic Beta Catenin Expression - Dose Response (AID 1045) • High Throughput Screen to Identify Compounds that Suppress the Growth of Cells with a Deletion of the PTEN Tumor Suppressor - Dose Response (AID 1047) • Leishmania major promastigote HTS (AID 1063) • HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules. (AID 1381) • High Throughput Screen to Identify Inhibitors of Mycobacterium tuberculosis H37Rv (AID 1626) • Primary cell-based high-throughput screening assay for identification of compounds that inhibit/block inward-rectifying potassium ion channel Kir2.1 (AID 1672) • Fluorescence-based primary cell-based high throughput screening assay to identify antagonists of the G-protein coupled receptor 7 (GPR7). (AID 1861) • High throughput discovery of novel modulators of ROMK K+ channel activity: Retest of Primary Hits (AID 1917) • High throughput discovery of novel modulators of ROMK K+ channel activity: Primary Screen (AID 1918) • Fluorescence-based confirmation cell-based high throughput screening assay to identify antagonists of the G-protein coupled receptor 7 (GPR7). (AID 1952) • Confirmatory screen for compounds that inhibit/block inward-rectifying potassium ion channel Kir2.1 (AID 2032) • 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) • Primary cell-based high-throughput screening assay for identification of compounds that inhibit KCNQ2 potassium channels (AID 2156) • VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) • HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules: Confirmation Assay (AID 463116) • qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxiredoxins (AID 485364) • Confirmatory screen for compounds that inhibit KCNQ2 potassium channels (AID 493025) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • Inhibitors of the vitamin D receptor (VDR): qHTS (AID 504847) • 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 for Inhibitors of Mammalian Selenoprotein Thioredoxin Reductase 1 (TrxR1): qHTS (AID 588453) • qHTS for Inhibitors of the vitamin D receptor (VDR): Hit Validation in Primary Screen (AID 602199) • qHTS for Inhibitors of the vitamin D receptor (VDR): Hit Validation using a Fluorescein Assay (AID 602200) • Luminescence-based biochemical primary high throughput screening assay to identify inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5) (AID 602281) • Luminescence-based biochemical high throughput confirmation assay for inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5) (AID 651612) • qHTS Assay for Inhibitors of the HIV-1 protein Vpr (AID 651644) • Counterscreen for inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5): Luminescence-based biochemical high throughput assay to identify inhibitors of Hepatocyte nuclear factor 4 (HNF4) dimerization (AID 651674) • 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-K74881104-001-01-2 PubChem CID : 54640317		0.72 (in 4 replicates)	0.57	0.748				Total number of assays tested in: 39.

BRD-K28073972-001-01-2 PubChem CID : 54641222		NA (in 1 replicates)	0.55	NA				Total number of assays tested in: 38.
BRD-A30356435-001-05-1 ASN 05581825 AC1MKX5A MLS000677963 HMS2627F11 SMR000285989 PubChem CID : 3211116		0.74 (in 4 replicates)	0.54	NA				Total number of assays tested in: 629. Active in the following assays: • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)
BRD-K90686530-001-01-9 PubChem CID : 54640396		0.63 (in 4 replicates)	0.54	0.748				Total number of assays tested in: 36.
BRD-K60190533-001-01-5 PubChem CID : 54640355		0.69 (in 4 replicates)	0.53	0.111				Total number of assays tested in: 35.
BRD-K50445566-001-01-5 PubChem CID : 54614827		0.61 (in 4 replicates)	0.51	0.748				Total number of assays tested in: 36. Active in the following assays: • VEID(2) R110 Enzymatic Primary HTS to identify Inhibitors of Caspase 6 Measured in Biochemical System Using Plate Reader - 7052-01_Inhibitor_SinglePoint_HTS_Activity_Set2 (AID 686996)
BRD-A62750882-034-11-3 SMR000291888 AC1NWW70 Ambcb7346974 MLS000674857 MLS003906141 HMS2720F19 PubChem CID : 5737390		0.79 (in 4 replicates)	0.50	NA				Total number of assays tested in: 656. Active in the following assays: • Luminescence Cell-Based/Microorganism Primary HTS to Identify Inhibitors of T.Cruzi Replication (AID 1885) • qHTS Assay for Inhibitors of Human Jumonji Domain Containing 2E (JMJD2E) (AID 2147) • Fluorescence Polarization Cell-Free Homogeneous Primary HTS to Identify Inhibitors of the LANA Histone H2A/H2B Interaction (AID 2629) • HTS Assay for Allosteric Antagonists of the Human D2 Dopamine Receptor: Primary Screen for Antagonists (AID 485344) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • qHTS Assay for Inhibitors of BAZ2B (AID 504333) • qHTS Assay for Inhibitors of JMJD2A-Tudor Domain (AID 504339) • qHTS of GLP-1 Receptor Inverse Agonists (Inhibition Mode) (AID 624417) • qHTS of D3 Dopamine Receptor Antagonist: qHTS (AID 652054) • qHTS for induction of synthetic lethality in tumor cells producing 2HG: qHTS for the HT-1080-NT fibrosarcoma cell line (AID 686970) • qHTS for induction of synthetic lethality in tumor cells producing 2HG: qHTS for the HT-1080-IDH1KD cell line (AID 686971) • qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279)

BRD-K03775622-001-05-6 AC1MY5JX AC1Q2Z1N MLS000775281 CTK6E7405 HMS2753B08 ZINC3885401 ZINC03885401 NE12164 SMR000368370 EN300-02180 T0502-8863 PubChem CID : 3851493		NA (in 1 replicates)	-0.64	NA				Total number of assays tested in: 585. Active in the following assays: • qHTS for Inhibitors of Tau Fibril Formation, Thioflavin T Binding (AID 1460) • qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490) • Aqueous Solubility from MLSMR Stock Solutions (AID 1996) • qHTS Assay for Inhibitors of Fructose-1,6-bisphosphate Aldolase from Giardia Lamblia (AID 2451) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • Antagonist of Human D 1 Dopamine Receptor: qHTS (AID 504652) • uHTS identification of small molecule inhibitors of Plasmodium falciparum Glucose-6-phosphate dehydrogenase via a fluorescence intensity assay (AID 504690) • Inhibitors of the vitamin D receptor (VDR): qHTS (AID 504847) • HTS for Inhibitors of HP1-beta Chromodomain Interactions with Methylated Histone Tails (AID 540317) • qHTS for Inhibitors of Glutaminase (GLS) (AID 624170) • MLPCN PGC1a Modulators Measured in Cell-Based System Using Plate Reader - 2139-01_Activator_SinglePoint_HTS_Activity (AID 651723) • Primary biochemical fluorescence polarization-based high throughput screening assay to identify inhibitors of protein arginine methyltransferase 1 (PRMT1) (AID 652257) • qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504) • MLPCN PGC1a Modulators Measured in Cell-Based System Using Plate Reader - 2139-01_Activator_Dose_CherryPick_Activity_Set6 (AID 720513) • qHTS of Trypanosoma Brucei Inhibitors: Confirmatory Assay for Cherry-picked Compounds (AID 720569) • qHTS of Trypanosoma Brucei Inhibitors: Orthogonal Assay for Cherry-picked Compounds (AID 720584)
								Total number of assays tested in: 651. Active in the following assays: • Primary cell-based high throughput screening assay to measure STAT3 inhibition (AID 862) • Primary cell-based high throughput screening assay to measure STAT1 inhibition (AID 920) • Counter Screen for Luciferase-based Primary Inhibition Assays (AID 1006) • Anti-Viral Drugs Against Arbovirus Infections, a Confirmatory Screen (AID 1250) • Anti-Viral Drugs Against Arbovirus Infections, a Primary Screen (AID 1251) • Primary screen for compounds that activate Alzheimer's amyloid precursor (AID 1276) • uHTS for the identification of compounds that potentiate TRAIL-induced apoptosis of cancer cells (AID 1443) • Identification of compounds which are cytotoxic to PPC-1 cells. (AID 1447) • qHTS Assay for Enhancers of SMN2 Splice Variant Expression (AID 1458) • Primary cell-based high-throughput screening assay for identification of compounds that protect hERG from block by proarrhythmic agents (AID 1511) • 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 - inhibitors (AID 1813) • Confirmatory screen for compounds that protect hERG from block by proarrhythmic agents (AID 1835) • HTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 8 (SENP8) (AID 2540) • VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) • uHTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 6 (SENP6) (AID 2599) • uHTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 7 (SENP7) (AID 434973) • qHTS Assay for Rab9 Promoter Activators (AID 485297) • qHTS Assay for NPC1 Promoter Activators (AID 485313) • HTS Assay for Allosteric Antagonists of the Human D2 Dopamine Receptor: Primary Screen for Antagonists (AID 485344) • Single concentration confirmation of uHTS for inhibitors of Sentrin-specific protease 8 (SENP8) using a Luminescent assay (AID 488912) • Single concentration confirmation of uHTS for inhibitors of Sentrin-specific protease 6 (SENP6) using a Luminescent assay (AID 488915) • Single concentration confirmation of uHTS for inhibitors of Sentrin-specific protease 7 (SENP7) using a Luminescent assay (AID 488917) • Single concentration confirmation of inhibitors of Sentrin-specific proteases (SENPs) using a Caspase-3 Selectivity assay (AID 488918) • Single concentration confirmation of inhibitors of Sentrin-specific proteases (SENPs) using a Luminescent Interference Counterscreen assay (AID 488919) • qHTS for inhibitors of binding or entry into cells for Marburg Virus (AID 540276) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • uHTS identification of Caspase-8 TRAIL sensitizers in a luminescence assay (AID 624354) • High-Throughput Screening for Modulators of Cytosolic Chaperonin Activity (AID 651819) • Luminescence-based cell-based primary high throughput screening assay for inhibitors of the orphan nuclear receptor subfamily 0, group B, member 1 (DAX1; NR0B1): repression of SF-1 (NR5A1) activated StAR promoter by full-length DAX-1 (AID 652010) • Luminescence-based cell-based primary high throughput screening assay to identify activators of the DAF-12 from the parasite H. contortus (hcDAF-12) (AID 652067) • Luminescence-based cell-based primary high throughput confirmation assay for inhibitors of the orphan nuclear receptor subfamily 0, group B, member 1 (DAX1; NR0B1): repression of SF-1 (NR5A1) activated StAR promoter by full-length DAX-1 (AID 652134) • Luminescence-based cell-based primary high throughput screening assay to identify agonists of the DAF-12 from the parasite H. glycines (hgDAF-12). (AID 687014) • Bursicon-induced LGR2 mediated cAMP production in LGR-2/CRE6x-Luciferase co-transfected HEK293 cells Inhibition (AID 720647) • HTS for Bacterial rRNA inhibitors Measured in Microorganism-Based System Using Plate Reader - 7056-01_Inhibitor_SinglePoint_HTS_Activity (AID 720706) • Luminescence-based cell-based high throughput confirmation assay to identify agonists of the DAF-12 from the parasite H. glycines (hgDAF-12). (AID 743050)
BRD-K27608080-001-05-6 MLS000774680 SMR000372439 22780-32-1 AC1M6KTQ AC1Q49EN BDBM97230 HMS2706C13 ZINC3284902 NE40853 OR148498 EN300-08353 T0520-1326 PubChem CID : 2400427		NA (in 1 replicates)	-0.60	NA				

BRD-K38410475-001-05-7 MLS000580189 SMR000199720 ST50201348 MLS002546503 BDBM45021 HMS2160G04 HMS3312P14 ZINC959484 ZINC00959484 PubChem CID : 1194512		NA (in 1 replicates)	-0.58	NA				Total number of assays tested in: 632. Active in the following assays: • Identification of Molecular Probes that Activate MRP-1 (AID 799) • Screen for Chemicals that Inhibit the RAM Network (AID 868) • qHTS Assay for Antagonists of the Neuropeptide S Receptor: cAMP Signal Transduction (AID 1461) • Profiling compound fluorescence on GSH Beads with 488 nm excitation and 530 nm emission (AID 1776) • VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) • Primary cell-based high-throughput screening assay for identification of compounds that potentiate/activate regulator of G-protein signaling 4 (RGS4) (AID 463111)
BRD-K20347745-001-01-4 PubChem CID : 54618137		0.59 (in 4 replicates)	-0.48	0.252				Total number of assays tested in: 36.
BRD-K75293299-001-01-4 PubChem CID : 44489127		0.53 (in 3 replicates)	-0.48	0.252				Total number of assays tested in: 52. Active in the following assays: • Identification of agents that induce E-selectin on human endothelial cells Measured in Cell-Based System Using Imaging - 2152-01_Activator_SinglePoint_HTS_Activity (AID 686992)
BRD-K84992272-001-02-9 MLS003129789 SMR001834235 PubChem CID : 44505949		0.92 (in 3 replicates)	-0.45	0.783				Total number of assays tested in: 225. Active in the following assays: • 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)
BRD-K42960120-001-01-3 PubChem CID : 54645917		NA (in 1 replicates)	-0.45	0.920				Total number of assays tested in: 40.
BRD-K73500713-001-01-2 PubChem CID : 54619420		0.53 (in 4 replicates)	-0.45	0.844				Total number of assays tested in: 38.
BRD-K71353148-001-01-3 PubChem CID : 44505660		0.77 (in 3 replicates)	-0.45	0.252				Total number of assays tested in: 25.

BRD-K28077119-001-01-7 PubChem CID : 54618108		0.56 (in 4 replicates)	-0.44	0.011				Total number of assays tested in: 36.