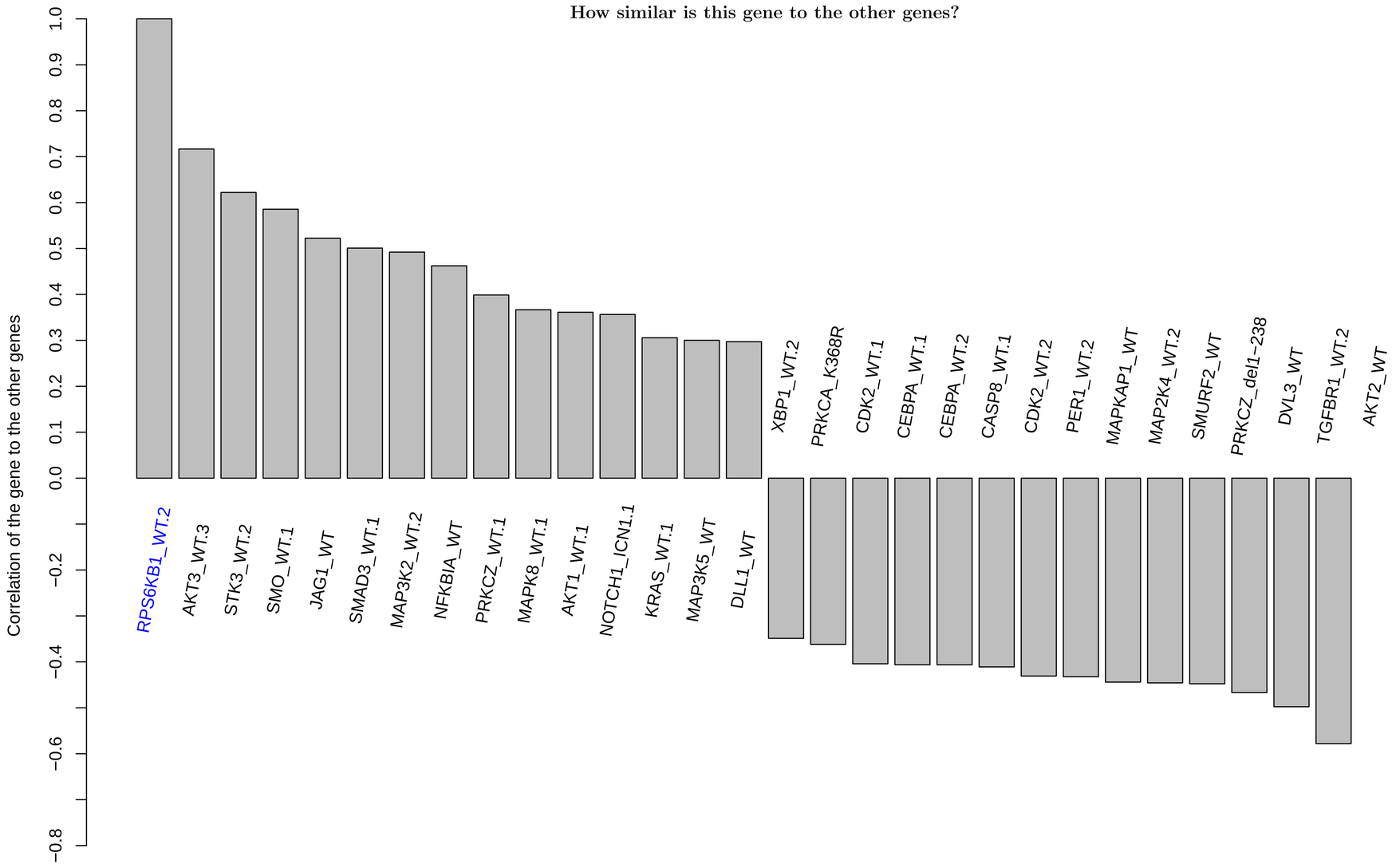
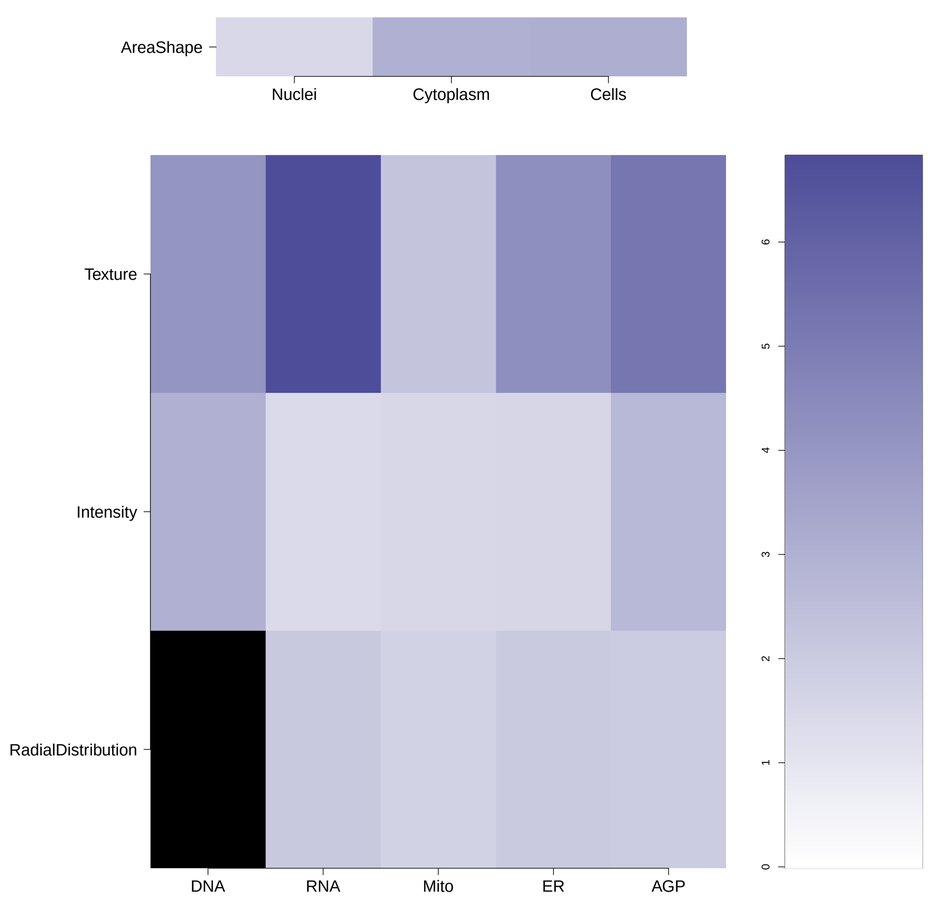
RPS6KB1_WT.2 - in Canonical TOR

How similar is this gene to the other genes?



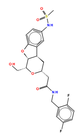
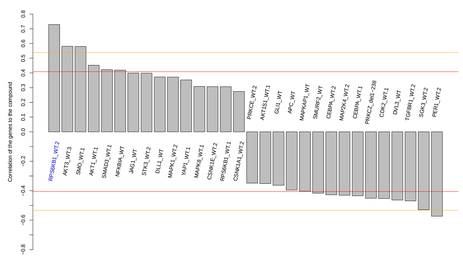
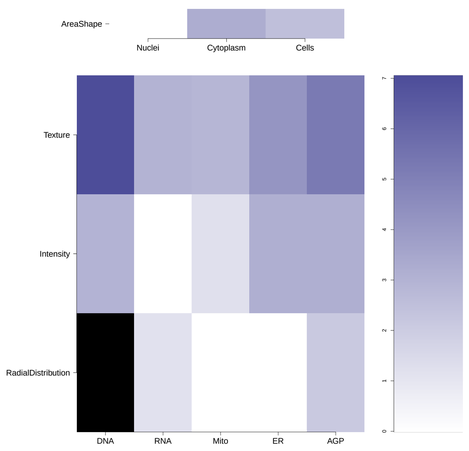
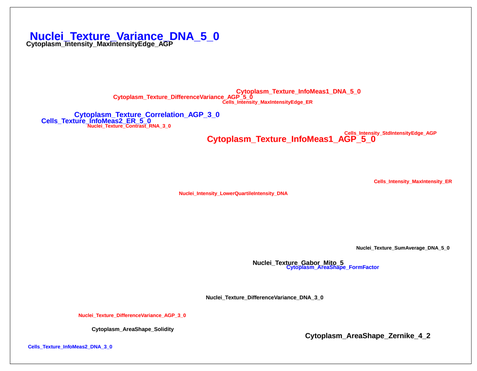
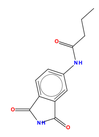
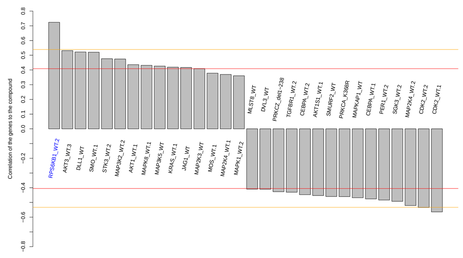
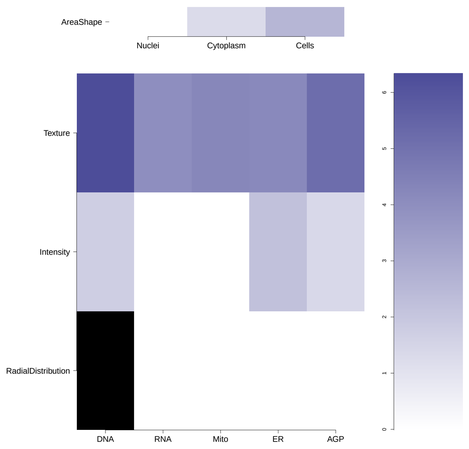
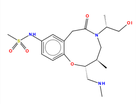
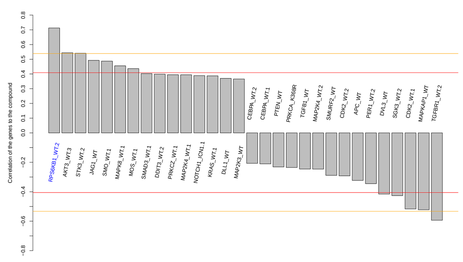
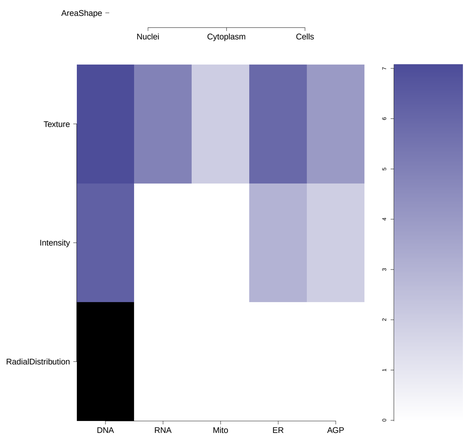
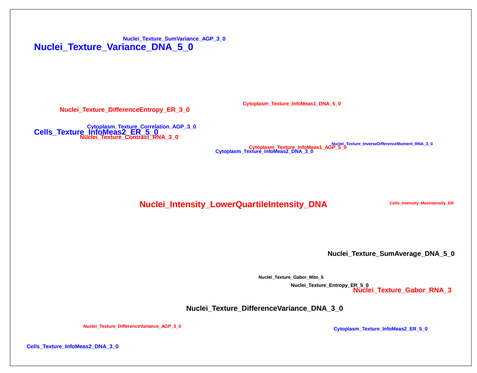
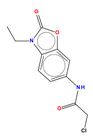
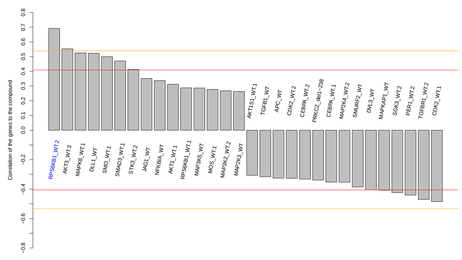
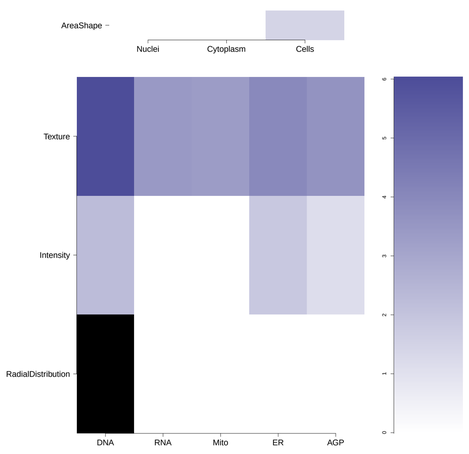
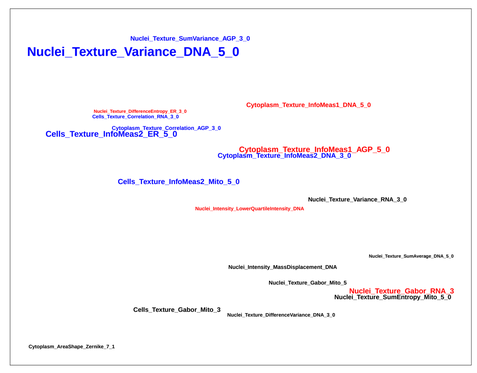
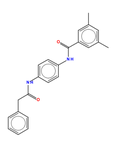
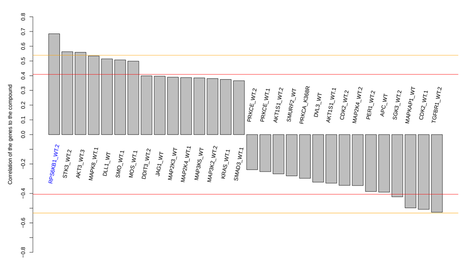
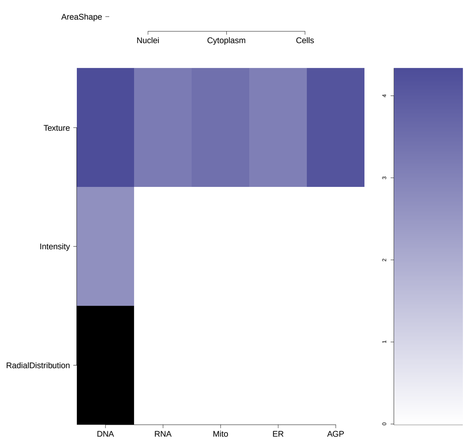
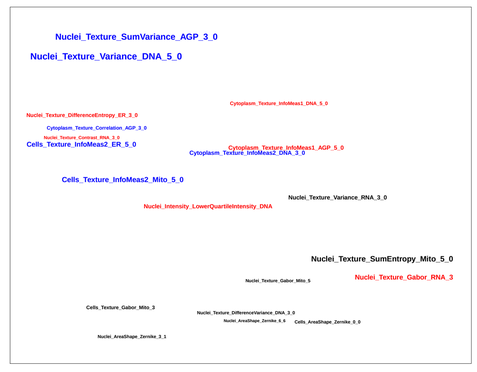
What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

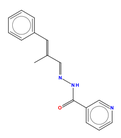
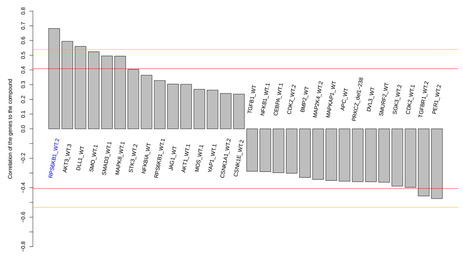
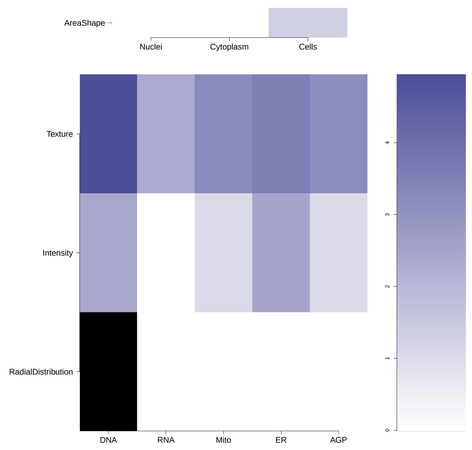
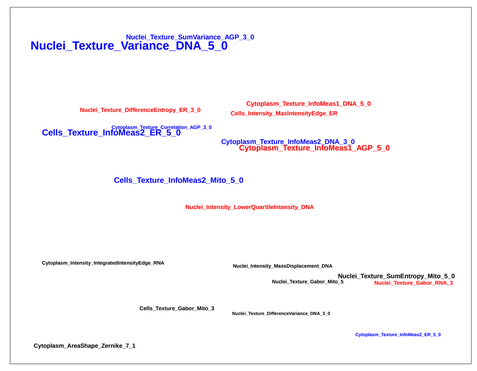
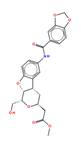
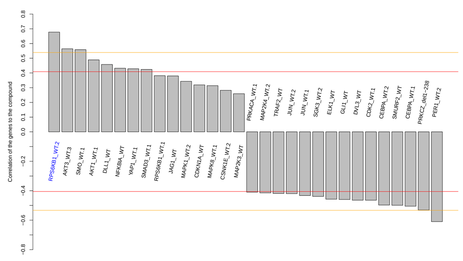
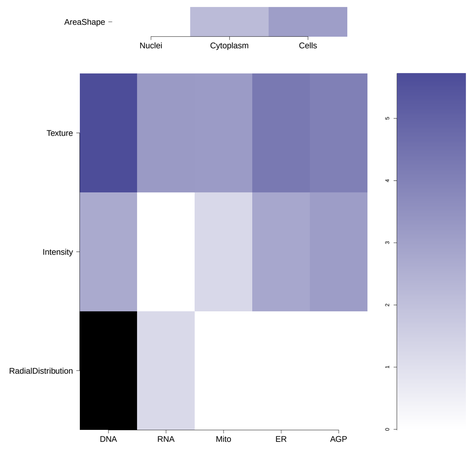
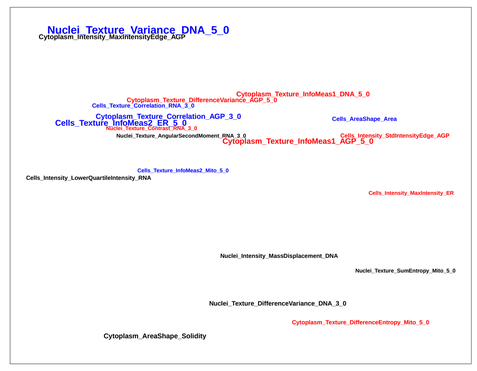
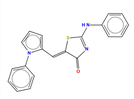
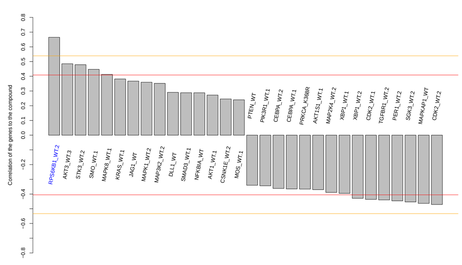
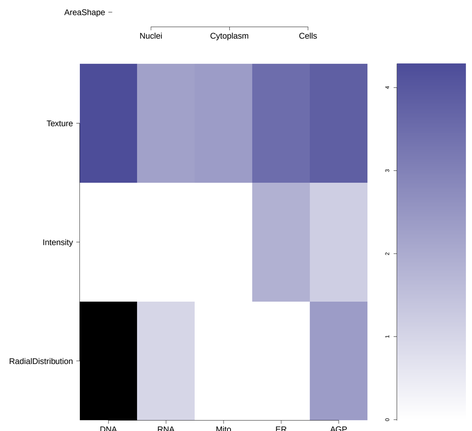
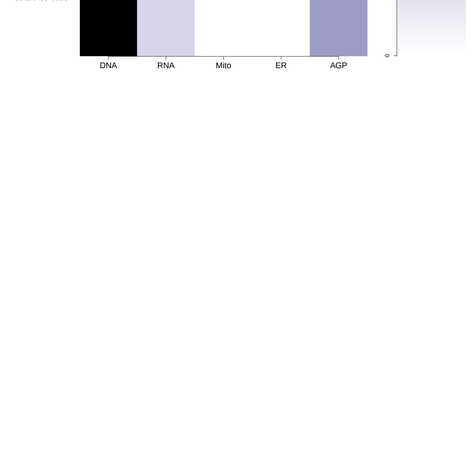


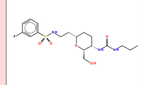
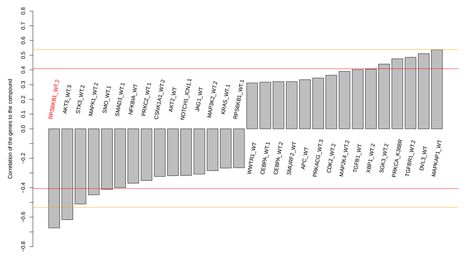
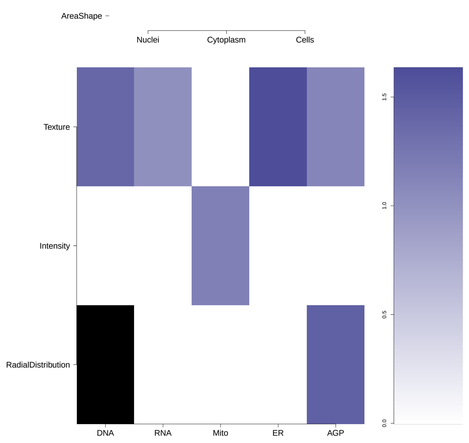
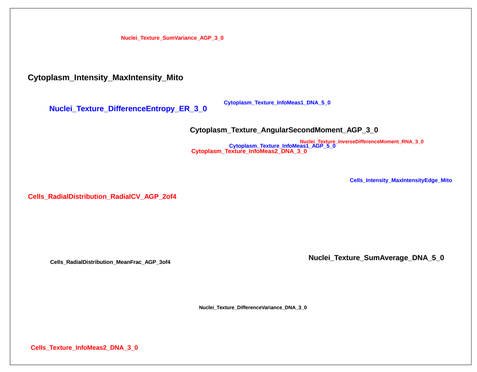
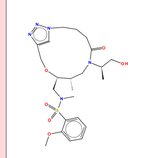
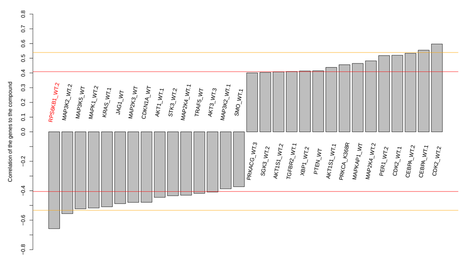
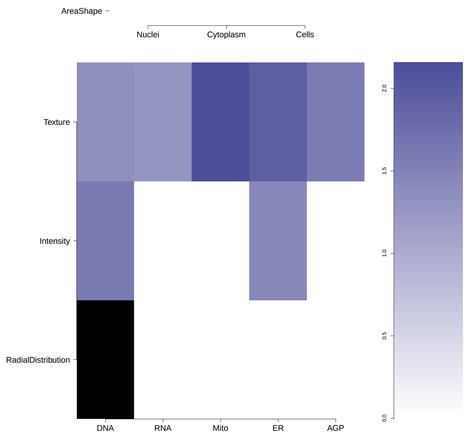
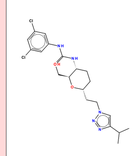
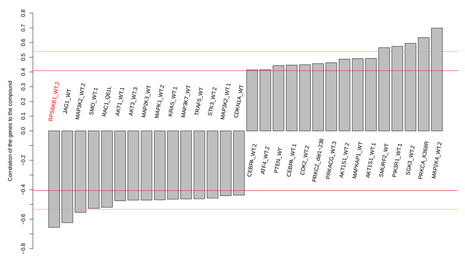
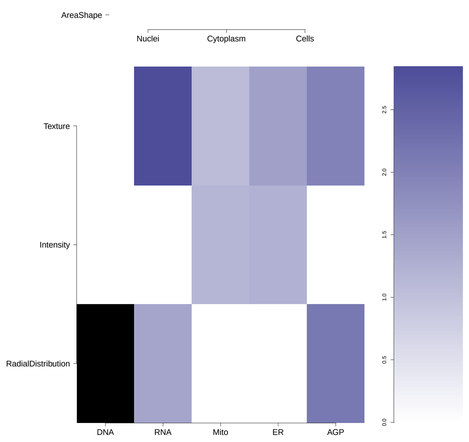
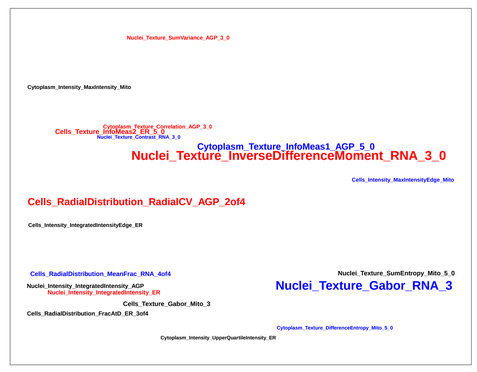
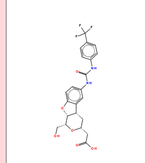
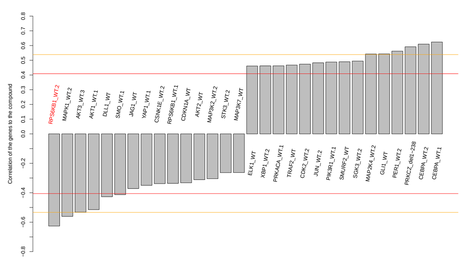
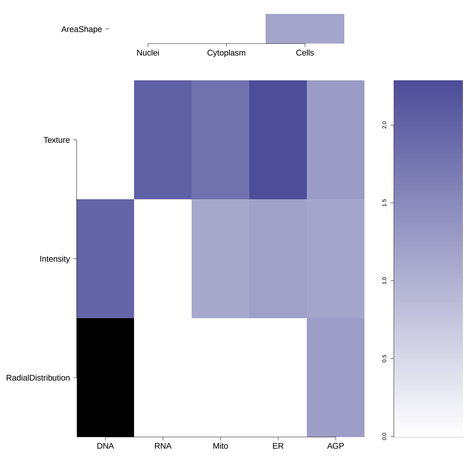
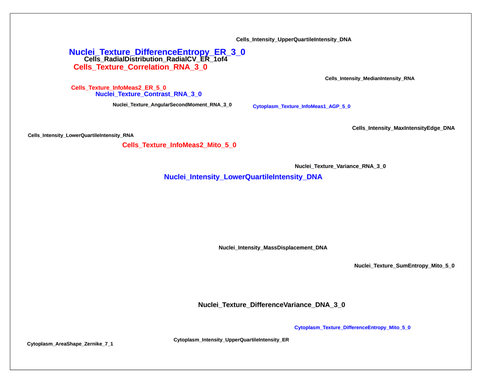
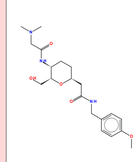
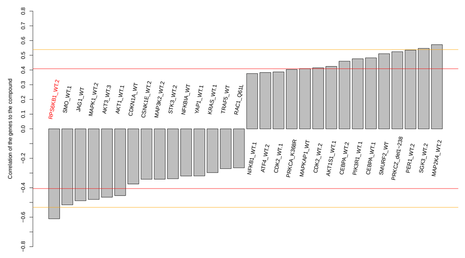
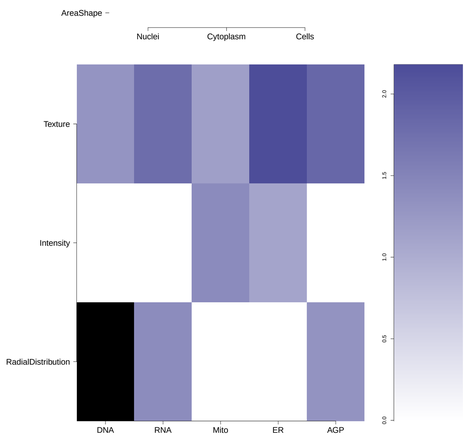
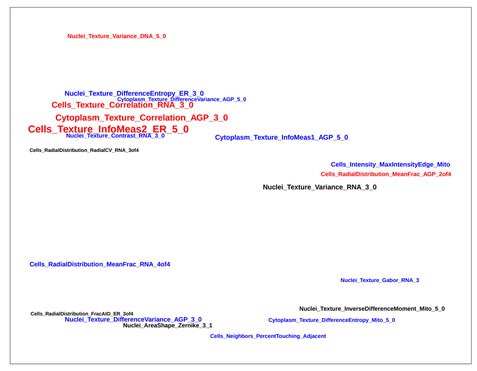
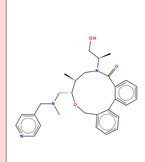
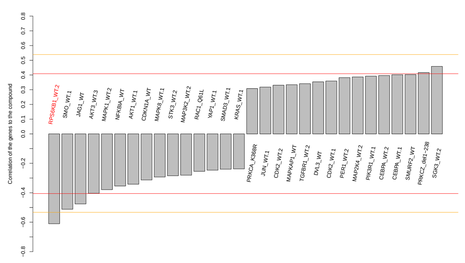
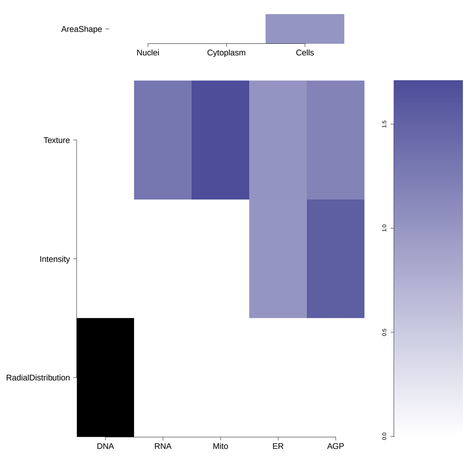
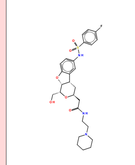
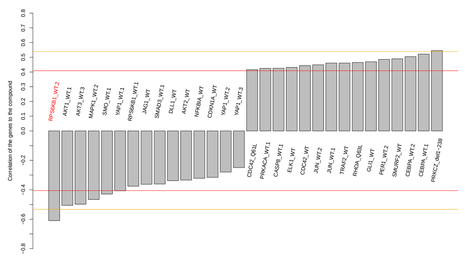
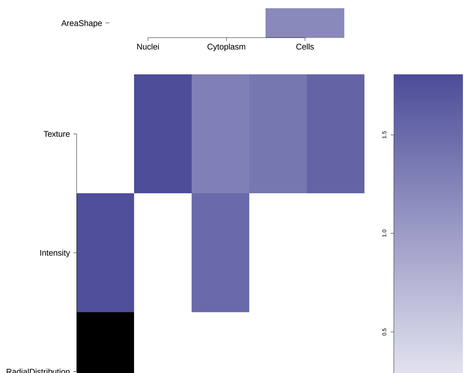
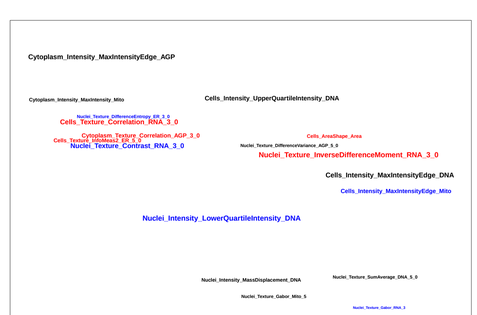
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

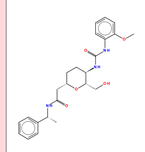
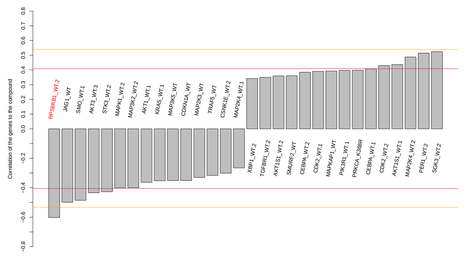
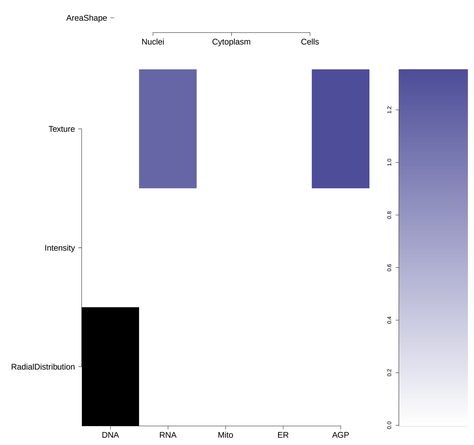
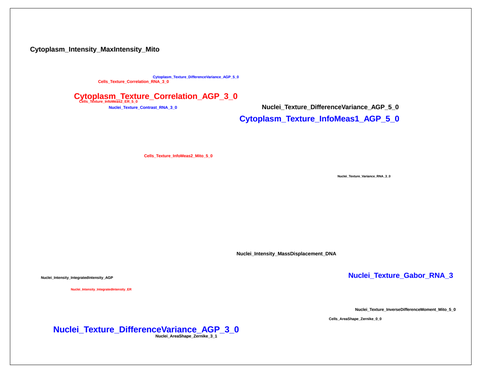
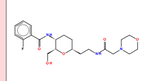
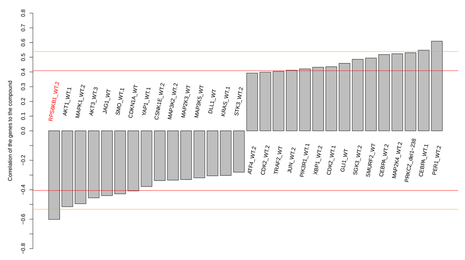
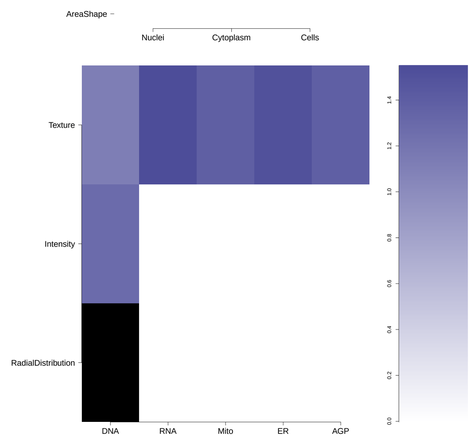
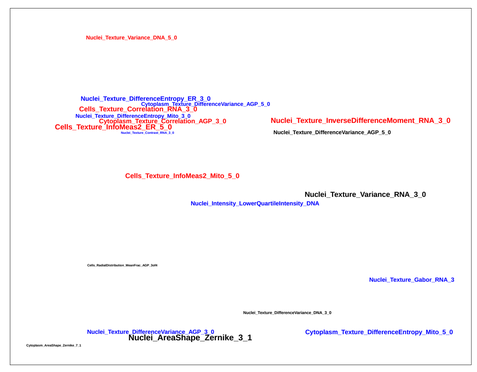
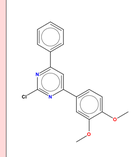
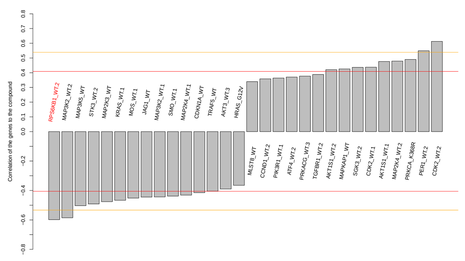
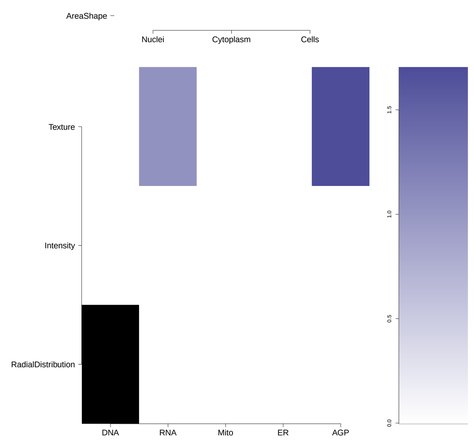
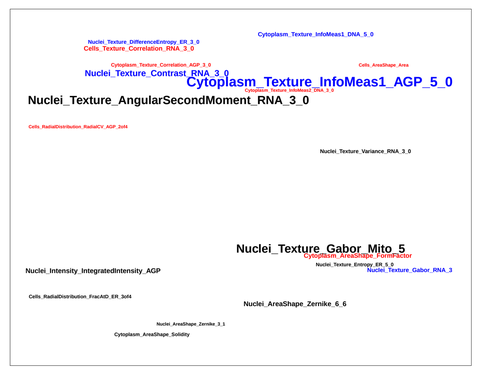
	Empty	RPS6KB1_WT.2 (41744)	RPS6KB1_WT.2 (41755)	RPS6KB1_WT.2 (41756)	RPS6KB1_WT.2 (41757)	RPS6KB1_WT.2 (41754)
RNA						
AGP						

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-K88187036-001-01-1 PubChem CID : 54646030		NA (in 1 replicates)	0.73	0.905				Total number of assays tested in: 41.
BRD-K65788620-001-05-6 MLS000530119 AC1OFYHI HMS2249L18 ZINC4263896 STL120313 SMR000127082 F1105-0222 PubChem CID : 7157941		NA (in 1 replicates)	0.72	NA				Total number of assays tested in: 692. Active in the following assays: • Luminescence Cell-Free Homogeneous Dose Retest to Confirm Inhibitors of GSK-3 alpha (AID 463203) • qHTS Inhibitors of AmpC Beta-Lactamase (assay without detergent) (AID 485341) • Fluorescence-based biochemical primary high throughput screening assay to identify inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 588726) • Fluorescence-based biochemical high throughput confirmation assay for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 651616) • 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)
BRD-K61020385-001-01-2 PubChem CID : 44495910		0.80 (in 4 replicates)	0.71	0.097				Total number of assays tested in: 58. Active in the following assays: • HIV entry: Env-mediated Cell Fusion Measured in Cell-Based System Using Plate Reader - 7013-01_Inhibitor_SinglePoint_HTS_Activity (AID 651610)
BRD-K26278645-001-05-7 SBB011989 AC1MKLKU BAS 09890511 MLS000718394 CTK6H5570 HMS2692N24 ZINC4383813 ZINC04383813 SMR000290662 TR-044142 ST50288808 PubChem CID : 3159246		NA (in 1 replicates)	0.69	NA				Total number of assays tested in: 637. Active in the following assays: • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • Leishmania major promastigote HTS (AID 1063) • MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) • Fluorescence polarization-based counterscreen for RBBP9 inhibitors: primary biochemical high throughput screening assay to identify inhibitors of the oxidoreductase glutathione S-transferase omega 1(GSTO1). (AID 1974) • Fluorescence polarization-based biochemical high throughput confirmation assay for inhibitors of the oxidoreductase glutathione S-transferase omega 1(GSTO1). (AID 2176) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) • uHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346) • qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxiredoxins (AID 485364) • Confirmation screen for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504848) • Confirmation screen for delayed death inhibitors of the malarial parasite plastid, 48 hour incubation (AID 504850) • In vivo-based yeast HTS counterscreen to detect compounds rescuing yeast growth/survival of Saccharomyces cerevisiae SKN7-mediated toxicity Measured in Whole Organism System Using Plate Reader - 2120-02_Inhibitor_Dose_CherryPick_Activity (AID 624258) • uHTS identification of HIF-2a Inhibitors in a luminescence assay (AID 624352) • Single concentration confirmation of HIF-2a Inhibitors in a HIF-1a counterscreen in human MiAPaCa-2 Cells luciferase reporter assay (AID 651589) • qHTS of Nrf2 Activators: Hit Validation in Primary Assay (AID 651593) • Counterscreen for inverse agonists of the liver receptor homolog-1 (LRH-1; NR5A2): Luminescence-based cell-based high throughput assay to identify nonselective inhibitors of the Steroidogenic acute regulatory protein (StAR) promoter or luminescence assay artifacts (AID 651611) • Luminescence-based cell-based high throughput confirmation assay for inverse agonists of the liver receptor homolog-1 (LRH-1; NR5A2) (AID 651613) • Counterscreen for inverse agonists of the liver receptor homolog-1 (LRH-1; NR5A2): Luminescence-based cell-based high throughput assay to identify inverse agonists of the Steroidogenic Factor 1 Nuclear Receptor (SF1; NR5A1) (AID 651614) • qHTS for Inhibitors of ATXN expression (AID 651635) • 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 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) • qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279) • A cell based assay for assessing THP-1 cell cytotoxicity of Inhibitors Targeting HIV-1 Vif-dependent Degradation of Human APOBEC3G (AID 1117359) • High Throughput Screening for Foot and Mouth Disease Virus Antivirals (AID 1159524)
BRD-K93766911-001-06-4 ZINC02857167 AC1M3CLL Ambcb7819677 MLS000621370 HMS2671P07 ZINC2857167 SMR000294392 PubChem CID : 2210441		NA (in 1 replicates)	0.68	NA				Total number of assays tested in: 634. Active in the following assays: • Primary cell-based high-throughput screening assay for identification of compounds that protect hERG from block by proarrhythmic agents (AID 1511) • uHTS for identification of Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 485346) • Activator for delta FosB/delta FosB homodimer Measured in Biochemical System Using Plate Reader - 2072-01_Activator_SinglePoint_HTS_Activity (AID 493131)

BRD-K49455964-001-05-7 ST50560125 AC1OC4NR MLS000722858 ZINC33296564 SMR000304854 PubChem CID : 6893677		NA (in 1 replicates)	0.68	NA				Total number of assays tested in: 626. Active in the following assays: • Counter Screen for Luciferase-based Primary Inhibition Assays (AID 1006) • 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 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) • Wnt/Beta-catenin HTS Measured in Cell-Based System Using Plate Reader - 2161-01_Activator_SinglePoint_HTS_Activity (AID 743398)
BRD-K82204596-001-01-2 PubChem CID : 54645805		NA (in 1 replicates)	0.68	0.686				Total number of assays tested in: 40.
BRD-K64205686-001-06-1 STK177924 AC1LYDEF MLS000537460 HMS2165F05 ZINC18272529 SMR000161539 PubChem CID : 1819576		0.80 (in 2 replicates)	0.67	NA				Total number of assays tested in: 678. Active in the following assays: • MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) • Luminescence Cell-Based Dose Response HTS to Identify Activators of Luciferase Translation or Activity in H4 Neuroglioblastoma Cells (AID 2002) • Colorimetric Assay for Inhibitors for NALP1 (AID 2071) • HCS assay for microtubule stabilizers (AID 2205) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • FRET-based cell-based primary high throughput screening assay to identify antagonists of the orexin 1 receptor (OX1R; HCRTR1) (AID 485270) • uHTS fluorescent assay for identification of inhibitors of ATG4B (AID 504462) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • Single concentration counterscreen of uHTS hits for ATG4B inhibitors in a Phospholipase A2 assay (AID 588402) • 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) • uHTS identification of inhibitors of NadD in a Colorimetric assay (AID 602399) • A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 624296) • A quantitative high throughput screen for small molecules that induce DNA re-replication in SW480 colon adenocarcinoma cells. (AID 624297) • Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human trace amine associated receptor 1 (TAAR1) (AID 624466) • 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_Dose_CherryPick_Activity (AID 651717) • Counterscreen for antagonists of the human trace amine associated receptor 1 (hTAAR1): Fluorescence-based cell-based high throughput screening assay to identify nonselective antagonists (AID 651780) • qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820) • qHTS of D3 Dopamine Receptor Antagonist: qHTS (AID 652054) • 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) • Confirm compound inhibition to esBAF complex through de-repress target gene Ring1 in qPCR assay Measured in Cell-Based System Using RT-PCR - 2141-04_Inhibitor_SinglePoint_CherryPick_Activity (AID 743176) • Confirm compound inhibition to esBAF complex through repress target gene Fgf4 in qPCR assay Measured in Cell-Based System Using RT-PCR - 2141-03_Inhibitor_SinglePoint_CherryPick_Activity (AID 743177) • Confirm compound inhibition to esBAF complex through de-repress target gene Bmi1 in qPCR assay Measured in Cell-Based System Using RT-PCR - 2141-02_Inhibitor_SinglePoint_CherryPick_Activity (AID 743180)
BRD-K65895220-001-01-2 PubChem CID : 54641123		NA (in 1 replicates)	0.66	NA				Total number of assays tested in: 37.
BRD-K93953657-001-05-8 SMR000211317 AC1LZHQW MLS000587258 MLS002581111 HMS2600P16 ZINC2305308 STK183137 ZINC02305308 ST50854890 PubChem CID : 1923659		NA (in 1 replicates)	0.66	NA				Total number of assays tested in: 638. Active in the following assays: • A Cell Based Secondary Assay To Explore Cytotoxicity of Compounds that Inhibit Mycobacterium Tuberculosis (AID 435019) • High Throughput Screening Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in 7H9 Media (AID 449762) • A High Throughput Confirmatory Assay used to Identify Novel Compounds that Inhibit Mycobacterium Tuberculosis in the absence of Glycerol (AID 449764) • uHTS identification of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463190) • qHTS Inhibitors of AmpC Beta-Lactamase (assay without detergent) (AID 485341) • Antagonist of Human D 1 Dopamine Receptor: qHTS (AID 504652) • qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820) • qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279)

BRD-K95882018-001-01-0 PubChem CID : 54641157		NA (in 1 replicates)	-0.67	NA				Total number of assays tested in: 38.
BRD-K50140257-001-02-4 MLS003129312 SMR001833758 PubChem CID : 44496390		0.76 (in 3 replicates)	-0.66	0.244				Total number of assays tested in: 229.
BRD-K62269054-001-01-4 PubChem CID : 54641204		NA (in 1 replicates)	-0.66	NA				Total number of assays tested in: 37.
BRD-K54166087-001-01-3 PubChem CID : 54646109		NA (in 1 replicates)	-0.63	0.314				Total number of assays tested in: 41.
BRD-K46458719-001-01-1 PubChem CID : 54639997		0.75 (in 4 replicates)	-0.61	0.314				Total number of assays tested in: 41.
BRD-K73658839-001-01-7 PubChem CID : 54638008		0.52 (in 3 replicates)	-0.61	0.919				Total number of assays tested in: 42.
BRD-K82284120-001-01-9 PubChem CID : 54645927		0.67 (in 2 replicates)	-0.61	0.918				Total number of assays tested in: 40.

BRD-K34414758-001-01-0 PubChem CID : 54640691		0.70 (in 4 replicates)	-0.60	0.709				Total number of assays tested in: 36.
BRD-K68732617-001-01-5 PubChem CID : 54640466		0.86 (in 4 replicates)	-0.60	0.093				Total number of assays tested in: 36.
BRD-K70544957-001-05-9 ZINC02496910 AC1M0XU9 Ambcb5341532 MLS001202721 HMS2817A19 ZINC2496910 BAS 00139571 SMR000505026 ST50218047 PubChem CID : 2058821		0.63 (in 2 replicates)	-0.60	NA				Total number of assays tested in: 498. Active in the following assays: • uHTS absorbance assay for the identification of compounds that inhibit VHR1. (AID 1654) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • An HTS Cytotoxicity Screen to evaluate New Inhibitors of Respiratory Syncytial Virus (RSV) (AID 2410) • Primary cell-based high-throughput screening assay for identification of compounds that inhibit KCNQ1 potassium channels (AID 2642) • Primary cell-based high-throughput screening assay for identification of compounds that potentiate/activate regulator of G-protein signaling 4 (RGS4) (AID 463111) • qHTS screen for small molecules that inhibit ELG1-dependent DNA repair in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504467) • Luminescence-based cell-based primary high throughput screening assay to identify biased ligands of the melanocortin 4 receptor (MC4R): agonists of MC4R (AID 540308) • Counterscreen for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis: Absorbance-based biochemical high throughput Glycerophosphate Dehydrogenase-Triosephosphate Isomerase (GDH-TPI) full deck assay to identify assay artifacts (AID 588335) • Validation (re-confirmation) assay for identification of compounds that inhibit KCNQ1 potassium channels (AID 588353) • A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 624296) • 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) • Counterscreen for inhibitors of 5-meCpG-binding domain protein 2 (MBD2): TRFRET-based biochemical primary high throughput screening assay to identify inhibitors of binding of ubiquitin-like with PHD and ring finger domains 1 (UHRF1) to methylated oligonucleotide (AID 687016)