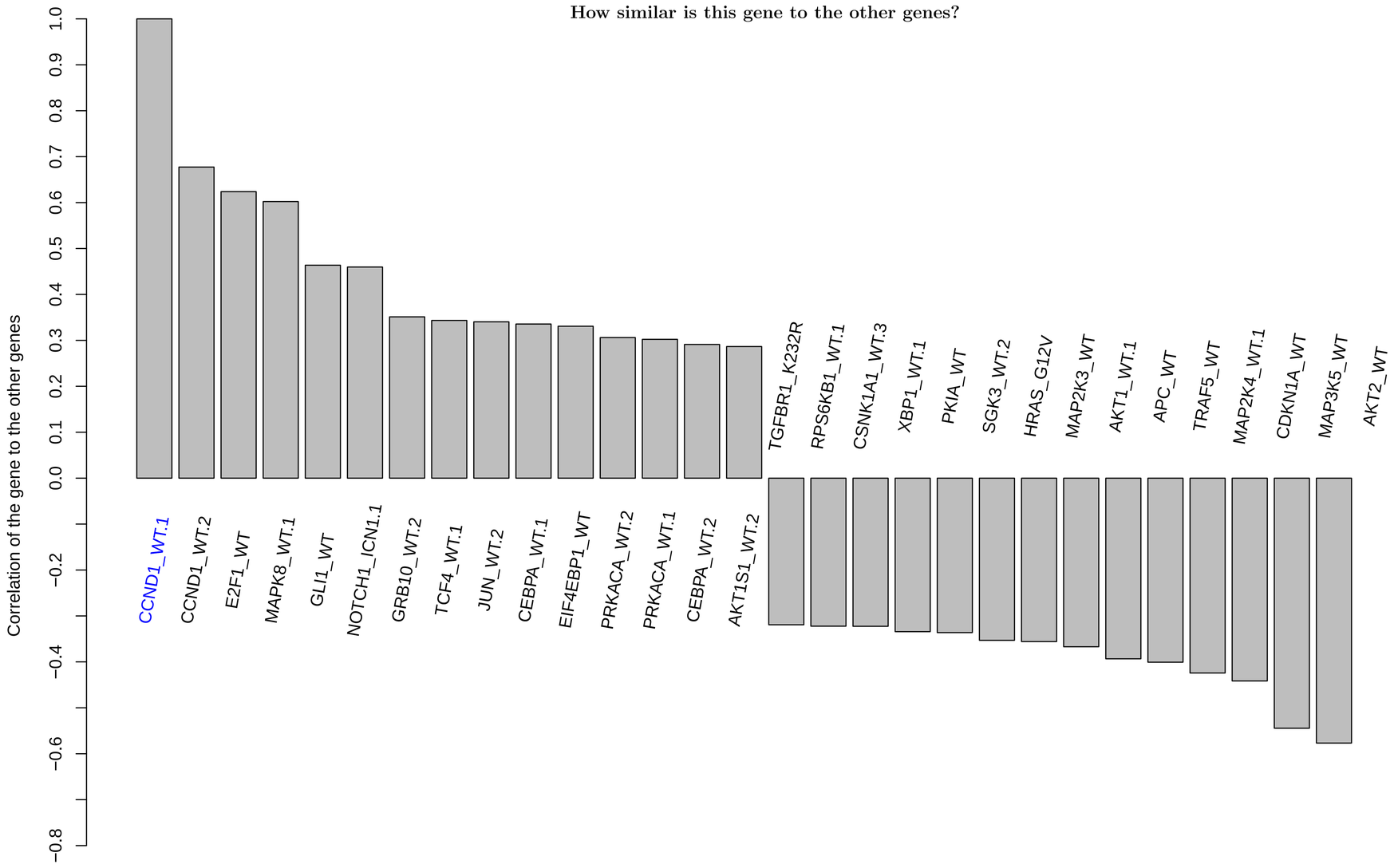
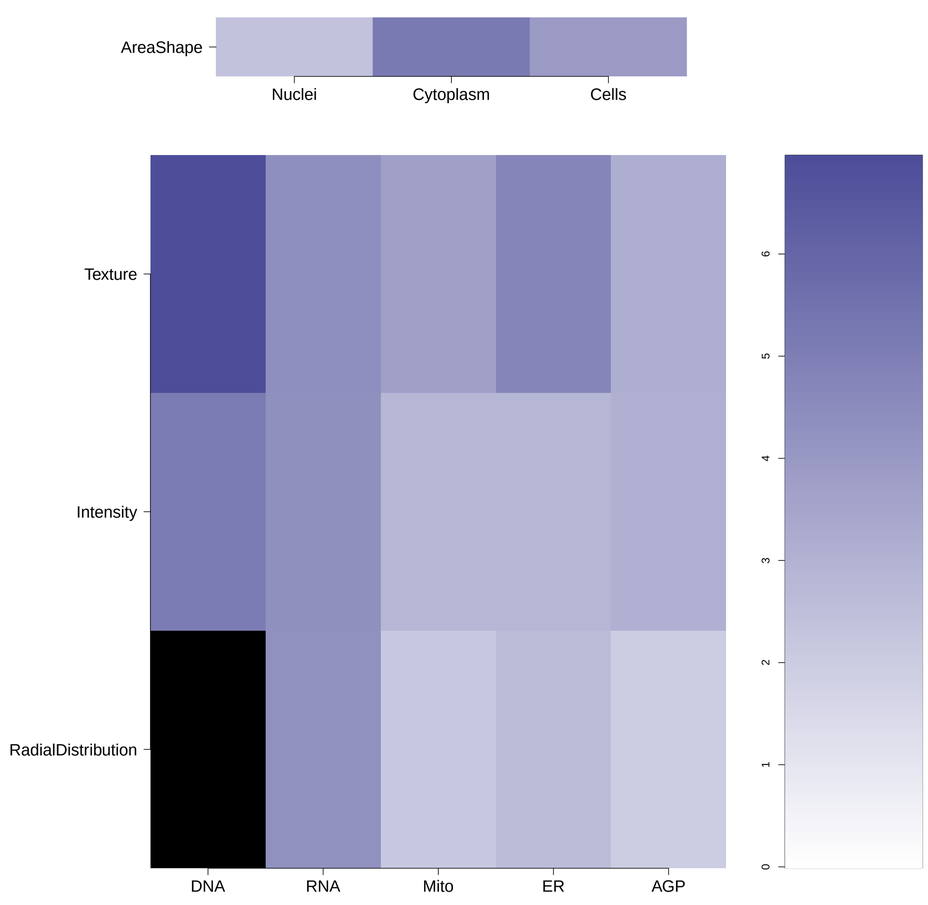
CCND1_WT.1 - in Canonical Cell Cycle

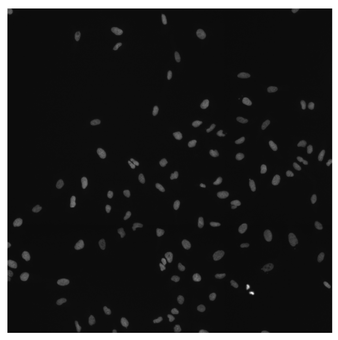
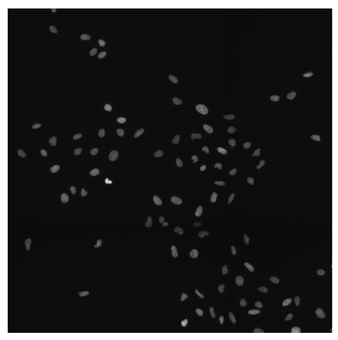
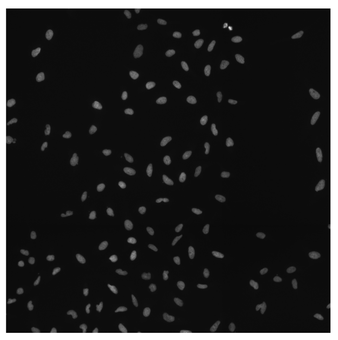
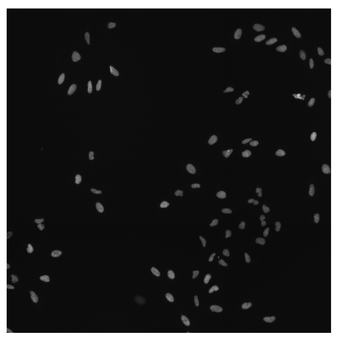
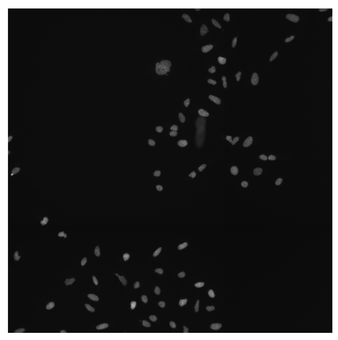
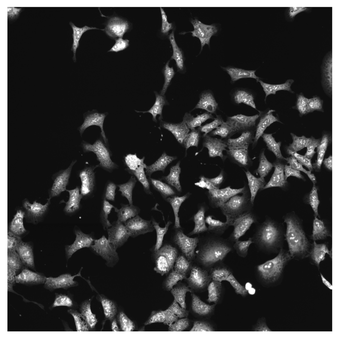
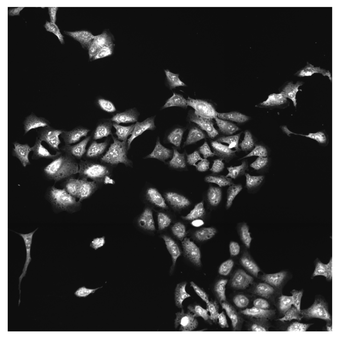
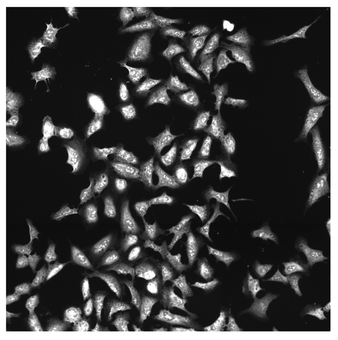
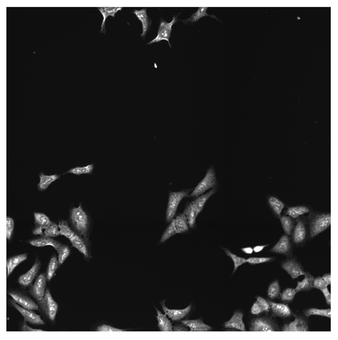
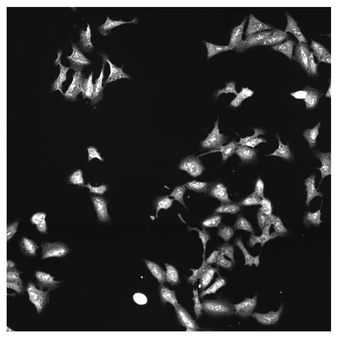
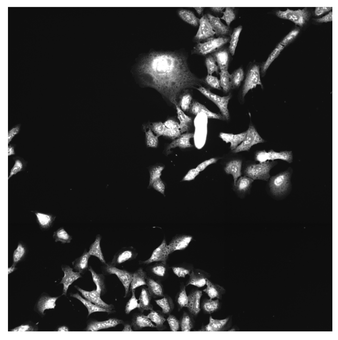
How similar is this gene to the other genes?



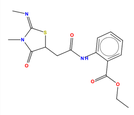
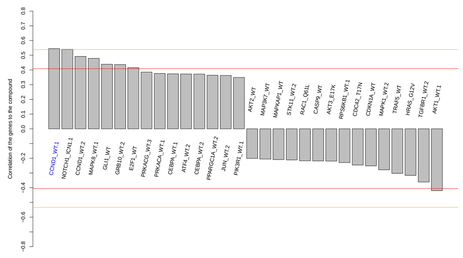
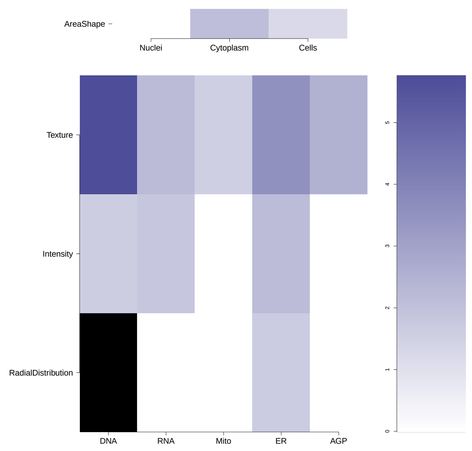
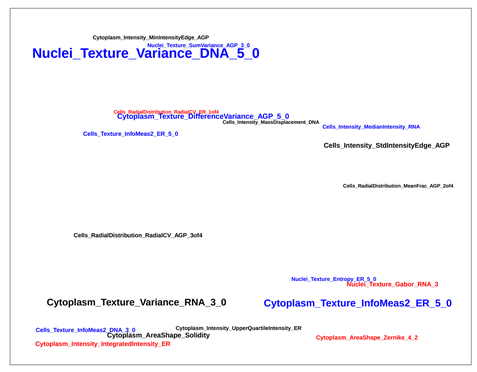
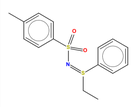
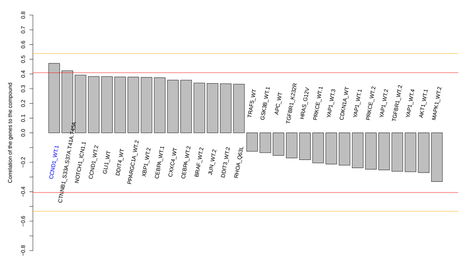
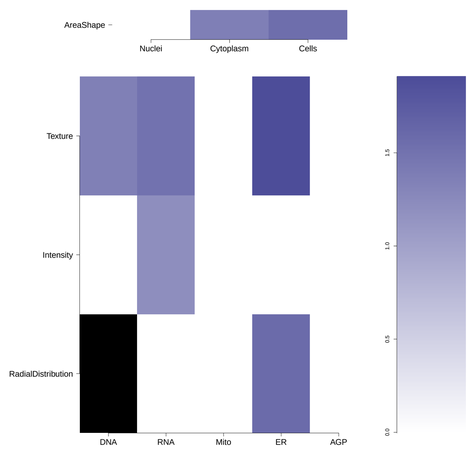
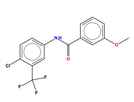
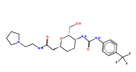
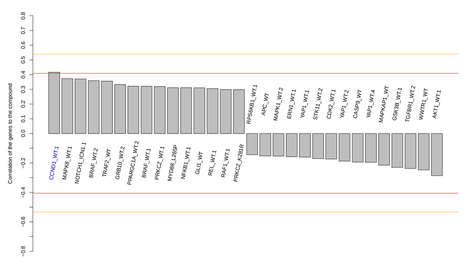
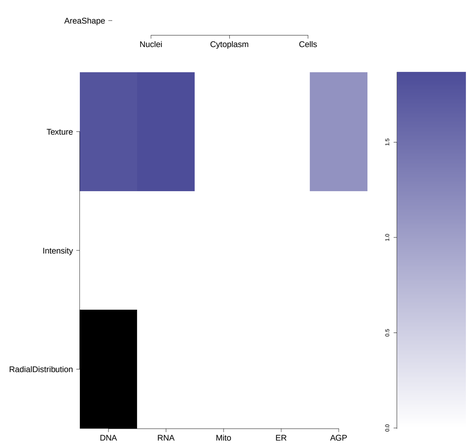
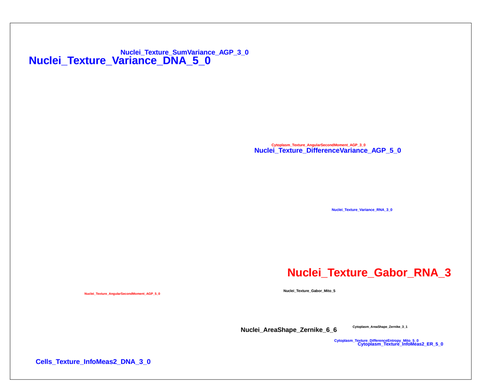
What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

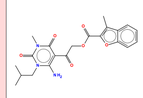
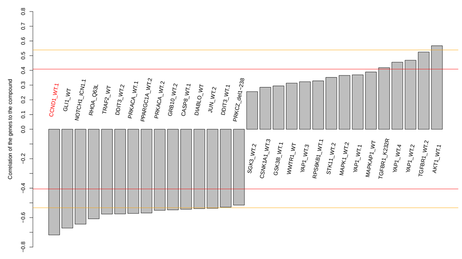
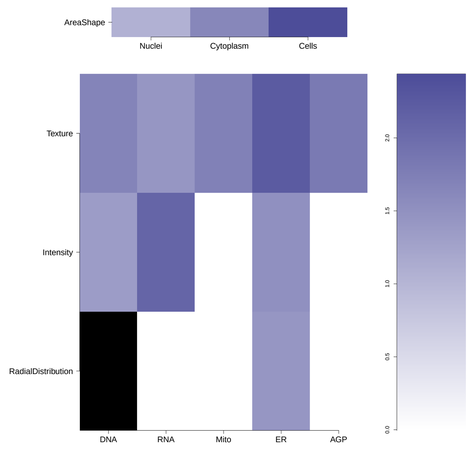
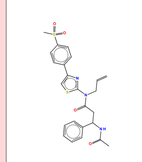
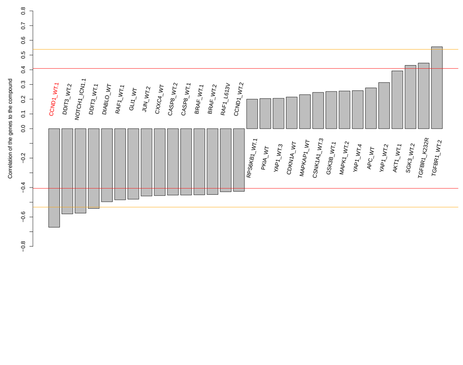
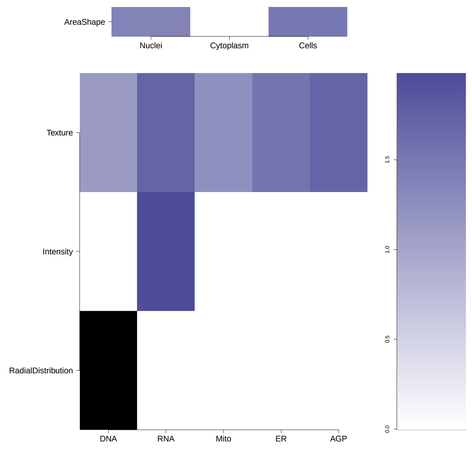
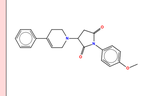
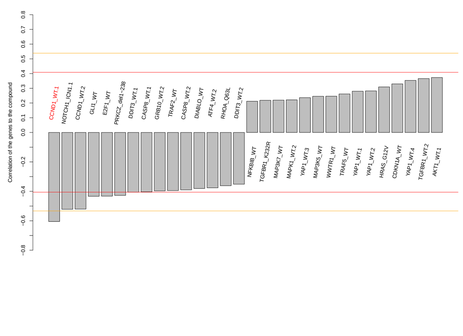
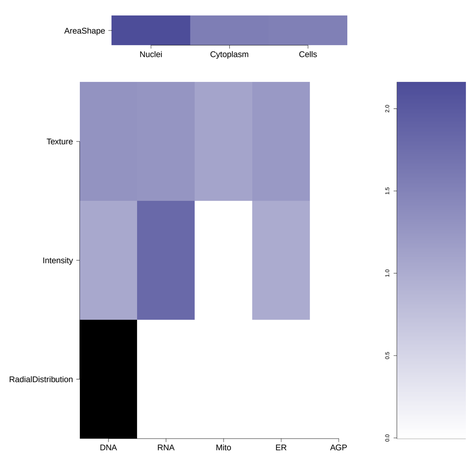
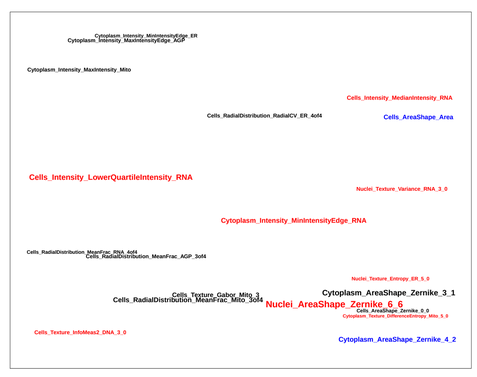
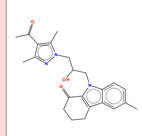
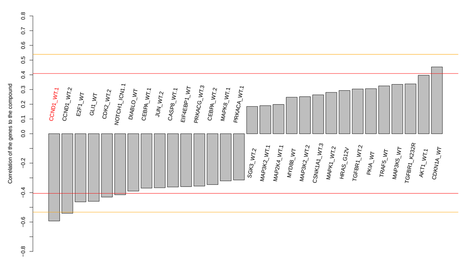
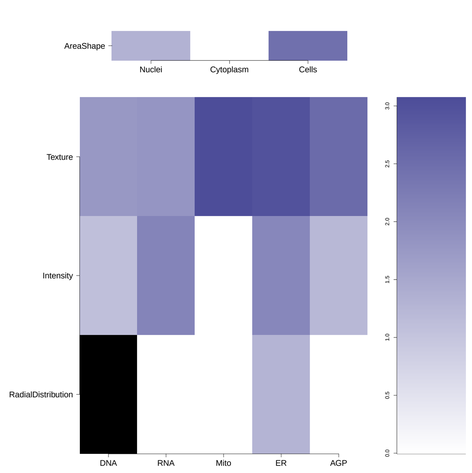
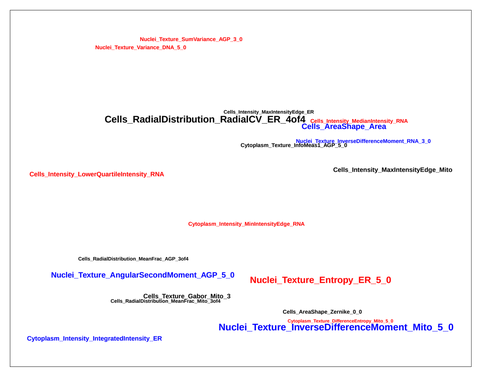
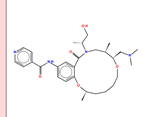
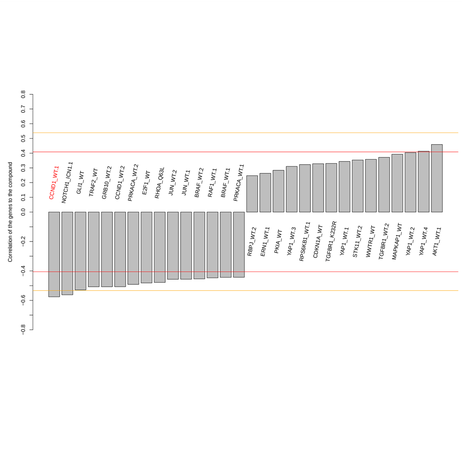
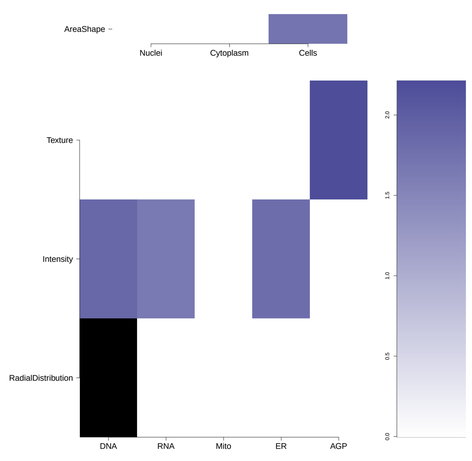
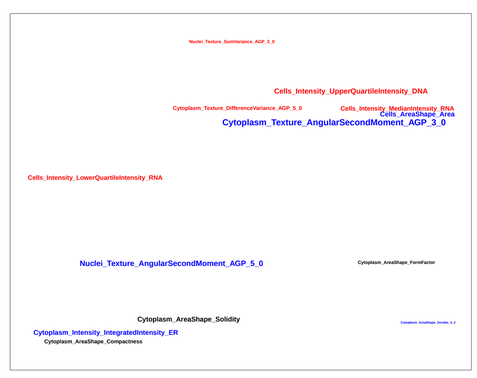


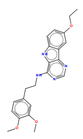
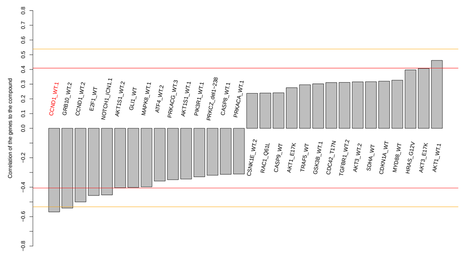
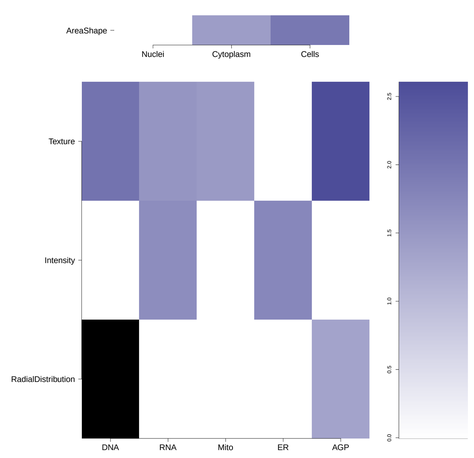
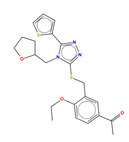
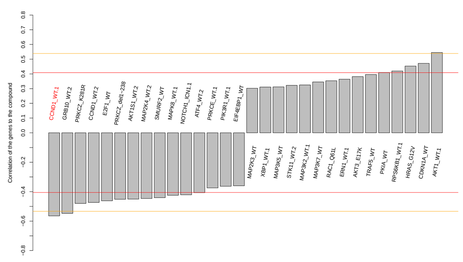
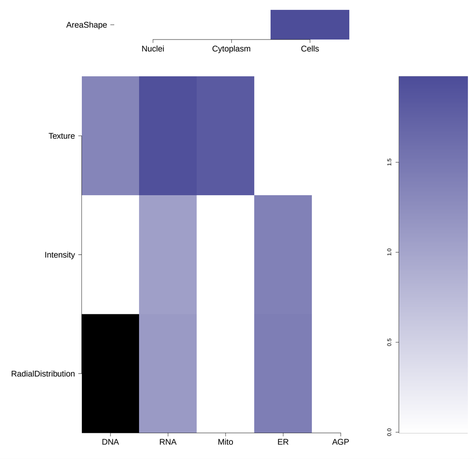
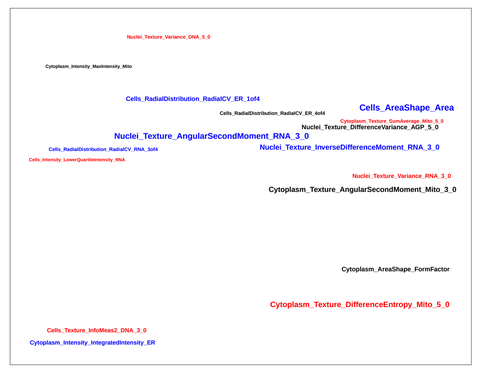
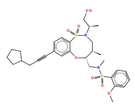
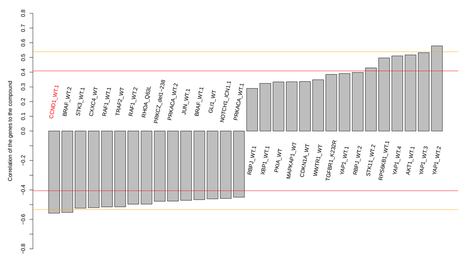
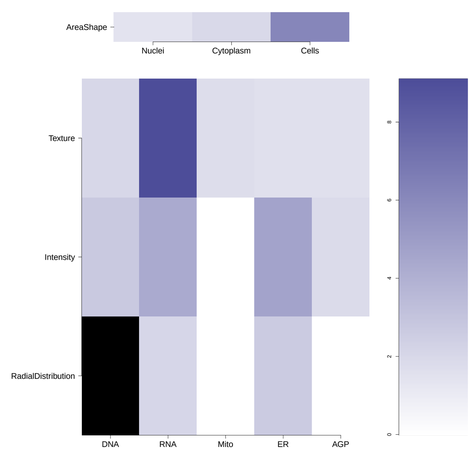
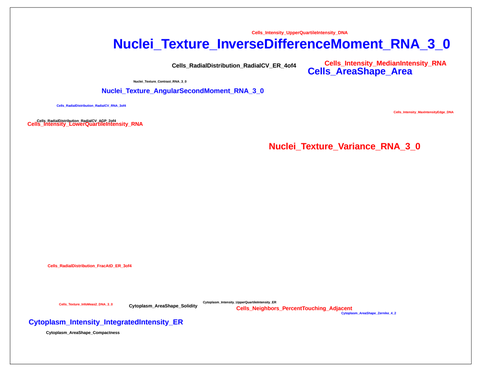
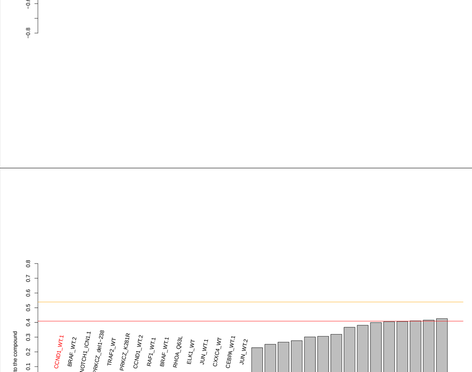
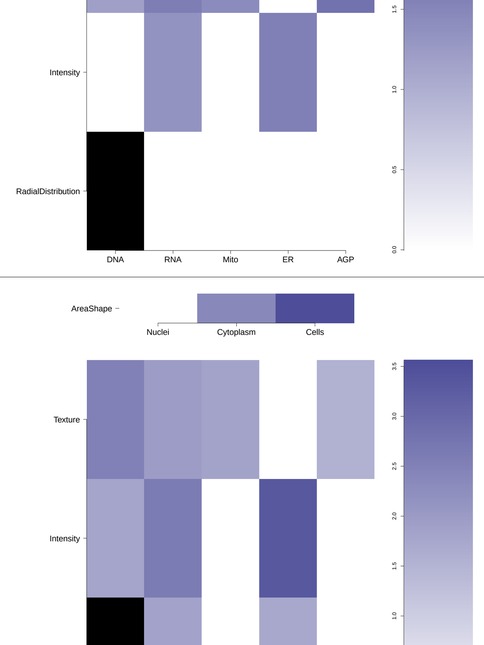
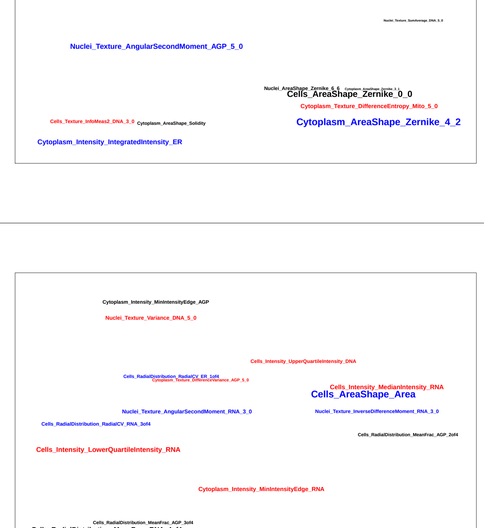
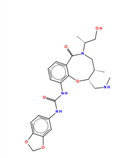
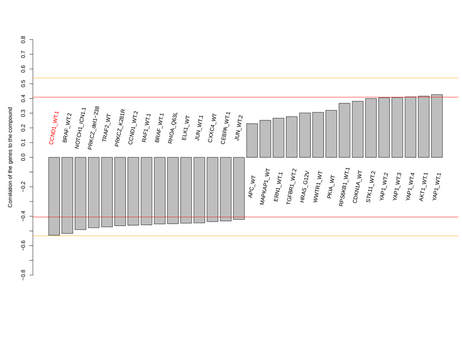
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

Empty	CCND1_WT.1 (41744)	CCND1_WT.1 (41755)	CCND1_WT.1 (41756)	CCND1_WT.1 (41757)	CCND1_WT.1 (41754)
DNA						
RNA						

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-A76506127-001-05-9 ST50274698 F1199-0106 SMR000012808 AC1LCS57 MLS000076356 MLS002537053 HMS616N19 HMS2184P11 STK392265 BAS 04357921 EU-0012475 PubChem CID : 655159		NA (in 1 replicates)	0.55	NA				Total number of assays tested in: 751.
BRD-A44903529-001-05-1 NSC152584 AC1Q2CAK AC1Q6VGT MLS000849840 HMS1661P12 HMS2791E12 BTB15068 AR-1K4303 NSC-152584 SMR000455858 PubChem CID : 9583263		0.57 (in 4 replicates)	0.47	NA				Total number of assays tested in: 568. Active in the following assays: • Luminescence-based cell-based primary high throughput screening assay to identify activators of the function of SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2, BRM) (AID 652017)
BRD-K02059094-001-05-5 STK167653 MLS000551094 AC1LGNLY AC1Q4JLW HMS2370F11 ZINC260820 SMSF0014011 AR-1H8145 ZINC00260820 CB03786 BAS 01186969 OR294848 SMR000176620 ST50248051 PubChem CID : 774420		0.69 (in 4 replicates)	0.47	NA				Total number of assays tested in: 700. Active in the following assays: • CYP2C9 Assay (AID 777) • 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) • 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) • Primary cell-based high-throughput screening assay for identification of compounds that inhibit KCNQ1 potassium channels (AID 2642) • HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732) • Inhibitors of Cav3 T-type Calcium Channels: Primary Screen (AID 449739) • uHTS identification of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463190) • uHTS identification of small molecule inhibitors of tim10 yeast via a luminescent assay (AID 463195) • uHTS identification of small molecule inhibitors of tim23-1 yeast via a luminescent assay (AID 463212) • Single concentration confirmation of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463213) • Single concentration confirmation of small molecule inhibitors of tim10 yeast via a luminescent assay (AID 463215) • Single concentration confirmation of small molecule inhibitors of tim23-1 yeast via a luminescent assay (AID 463218) • uHTS identification of small molecule inhibitors of Plasmodium falciparum Glucose-6-phosphate dehydrogenase via a fluorescence intensity assay (AID 504690) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • Validation (re-confirmation) assay for identification of compounds that inhibit KCNQ1 potassium channels (AID 588353) • Counter screen assay of the parental CHO cells for identification of compounds that inhibit KCNQ1 potassium channels (AID 588366) • Primary cell-based high-throughput screening for identification of compounds that inhibit/block calcium-activated chloride channels (TMEM16A) (AID 588511) • 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 small molecule inhibitors of the mitochondrial permeability transition pore via an absorbance assay (AID 602449) • Single concentration confirmation of uHTS inhibitor hits of the mitochondrial permeability transition pore via a fluorescent based assay (AID 624504) • 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) • 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) • Re-confirmation assay for identification of compounds that inhibit/block calcium-activated chloride channels (TMEM16A) (AID 652189) • QFRET-based biochemical primary high throughput screening assay to identify exosite inhibitors of ADAM17. (AID 720648)
BRD-K79547691-001-01-3 PubChem CID : 54640751		0.52 (in 4 replicates)	0.42	0.060				Total number of assays tested in: 39.

BRD-K72107498-001-05-9 MLS000057806 SMR000063190 T5226776 AC1M0V5G MLS002634435 BDBM54163 HMS2386L16 ZINC2622078 ZINC02622078 PubChem CID : 2083976		NA (in 1 replicates)	-0.72	NA				Total number of assays tested in: 783. Active in the following assays: • Primary HTS assay for 5-Hydroxytryptamine (Serotonin) Receptor Subtype 1a (5HT1a) antagonists (AID 612) • uHTS luminescence assay for the identification of compounds that inhibit NOD1 (AID 1578) • SAR analysis of compounds that inhibit NOD1 revised (AID 2333) • SAR analysis of compounds that inhibit NOD2 revised (AID 2334) • qHTS screen for small molecules that inhibit ELG1-dependent DNA repair in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504467) • qHTS for inhibitors of binding or entry into cells for Marburg Virus (AID 540276) • Luminescence-based cell-based primary high throughput screening assay to identify agonists of the mouse 5-hydroxytryptamine (serotonin) receptor 2A (HTR2A) (AID 624169) • MLPCN PGC1a Modulators Measured in Cell-Based System Using Plate Reader - 2139-01_Activator_SinglePoint_HTS_Activity (AID 651723) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978) • MLPCN PGC1a Modulators Measured in Cell-Based System Using Plate Reader - 2139-01_Activator_Dose_CherryPick_Activity_Set6 (AID 720513) • Fluorescence-based biochemical high throughput primary assay to identify inhibitors of phospholipase C isozymes (PLC-beta3). (AID 720704)
BRD-A42388265-001-05-5 T5535119 SMR000592452 MLS001177256 MLS003913451 PubChem CID : 16293736		NA (in 1 replicates)	-0.67	NA				Total number of assays tested in: 502. Active in the following assays: • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • High throughput screening of inhibitors of transient receptor potential cation channel C6 (TRPC6) (AID 2553) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 48 hour incubation (AID 504832) • 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) • 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) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)
BRD-A37491729-001-04-7 SMR000093056 MLS000116070 AC1MS8VT MLS002589873 HMS2264O09 STK662858 ST4095278 PubChem CID : 3555454		NA (in 1 replicates)	-0.60	NA				Total number of assays tested in: 779. Active in the following assays: • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • A screen for inhibitors of the PhoP regulon in Salmonella Typhi using a modified counterscreen (AID 1985) • A cytotoxicity screen of small molecule inhibitors of the PhoP regulon in Salmonella typhi identified in the primary screen (AID 2252) • uHTS identification of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463190) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332) • High-Throughput Screening for Modulators of Cytosolic Chaperonin Activity (AID 651819) • Luminescence-based cell-based primary high throughput screening assay to identify activators of the function of SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 (SMARCA2, BRM) (AID 652017) • qHTS of TDP-43 Inhibitors (AID 652104) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979)
BRD-A27209003-001-04-2 AC1LCN9X regid850402 MLS000034337 HMS2330A22 CCG-23983 STK927494 BAS 05604614 SMR000013467 EU-0082780 ST50031572 PubChem CID : 652924		NA (in 1 replicates)	-0.59	NA				Total number of assays tested in: 750. Active in the following assays: • qHTS Assay for Spectroscopic Profiling in 4-MU Spectral Region (AID 589) • qHTS Assay for Spectroscopic Profiling in A350 Spectral Region (AID 590) • Discovery of Novel Allosteric Modulators of the M1 Muscarinic Receptor: Agonist Primary Screen (AID 626) • Profiling the NIH Molecular Libraries Small Molecule Repository: Autofluorescence at 339/460 nm (AID 709) • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • qHTS Assay for Inhibitors of HSD17B4, hydroxysteroid (17-beta) dehydrogenase 4 (AID 893) • Discovery of novel allosteric modulators of the M1 muscarinic receptor: Agonist Confirmation Assay (AID 1488) • Confirmed Agonists of Novel Allosteric Modulators of the M1 Muscarinic Receptor (AID 652178) • qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279)
BRD-K37479727-001-01-8 PubChem CID : 44486434		0.62 (in 4 replicates)	-0.58	0.225				Total number of assays tested in: 46. Active in the following assays: • DENV2 CPE-Based HTS Measured in Cell-Based and Microorganism Combination System Using Plate Reader - 2149-01_Other_SinglePoint_HTS_Activity (AID 651640)

BRD-K80554872-001-05-8 ZINC02418876 AC1M04BJ MLS000762393 HMS2778L22 ZINC2418876 STL343930 SMR000437909 PubChem CID : 2015821		NA (in 1 replicates)	-0.57	NA				Total number of assays tested in: 571. Active in the following assays: • uHTS of Mcl-1/Noxa interaction inhibitors (AID 1022) • Counterscreen qHTS for Inhibitors of Tau Fibril Formation, Fluorescence Polarization (AID 1463) • Fluorescence polarization-based cell-based primary high throughput screening assay to identify inhibitors of insulin-degrading enzyme (IDE) (AID 434962) • Counterscreen for IDE inhibitors: Luminescence-based cell-based high throughput assay to identify cytotoxic compounds using HEK cells (AID 449730) • qHTS screen for small molecules that inhibit ELG1-dependent DNA repair in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504467) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 48 hour incubation (AID 504832) • Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 96 hour incubation (AID 504834) • HTS Assay for Peg3 Promoter Inhibitors (AID 588405) • Fluorescence-based biochemical primary high throughput screening assay to identify inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 588726) • Single concentration confirmation of uHTS hits for Peg3 Promoter Inhibitors via a luciferase reporter assay (AID 602417) • 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 biochemical high throughput confirmation assay for inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 651616) • qHTS Assay for Inhibitors of Hepatitis C Virus (HCV) (AID 651820) • 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) • Luminescence-based cell-based primary high throughput screening assay to identify inhibitors of COUP-TFII (NR2F2) (AID 686940) • 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) • 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) • qHTS for Inhibitors of Inflammasome Signaling: IL-1-beta AlphaLISA Primary Screen (AID 743279) • Fluorescence polarization-based biochemical high throughput primary assay to identify inhibitors of sialic acid acetylesterase (SIAE) (AID 1053197)
BRD-A88093547-001-05-6 SMR000067948 AC1MHCS4 MLS000056164 MLS002634742 HMS2316H12 PubChem CID : 2999930		NA (in 1 replicates)	-0.56	NA				Total number of assays tested in: 780. Active in the following assays: • CYP2C9 Assay (AID 777) • CYP2C19 Assay (AID 778) • qHTS Assay for Agonists of the Thyroid Stimulating Hormone Receptor: Activators of Intracellular cAMP Concentrations in Parental HEK 293 (AID 938) • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • Primary cell-based high-throughput screening assay for antagonists of NPY-Y1 (AID 1040) • qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxiredoxins (AID 485364) • qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)
BRD-K17923226-001-01-5 PubChem CID : 54619100		0.85 (in 4 replicates)	-0.56	0.252				Total number of assays tested in: 38. Active in the following assays: • MLPCN SirT-5 Measured in Biochemical System Using Imaging - 7044-01_Inhibitor_SinglePoint_HTS_Activity_Set5 (AID 652115) • Plasmodium falciparum Dd2 Sybr green parasite growth Measured in Cell-Based and Microorganism Combination System Using Plate Reader - 2153-01_Inhibitor_Dose_DryPowder_Activity (AID 1159566) • Plasmodium falciparum Dd2 Sybr green parasite growth Measured in Cell-Based and Microorganism Combination System Using Plate Reader - 2153-05_Inhibitor_Dose_CherryPick_Activity (AID 1159567) • HepG2 cytotoxicity counterscreen Measured in Cell-Based System Using Plate Reader - 2153-03_Inhibitor_Dose_DryPowder_Activity (AID 1159569) • Plasmodium falciparum 3D7-ScDHODH Sybr green parasite growth Measured in Cell-Based and Microorganism Combination System Using Plate Reader - 2153-02_Inhibitor_Dose_DryPowder_Activity (AID 1159570) • Plasmodium falciparum PfNITD609-resistant ATP4 D1247Y Sybr green parasite growth Measured in Cell-Based and Microorganism Combination System Using Plate Reader - 2153-11_Inhibitor_Dose_DryPowder_Activity (AID 1159571) • HepG2 cytotoxicity counterscreen Measured in Cell-Based System Using Plate Reader - 2153-03_Inhibitor_Dose_CherryPick_Activity (AID 1159577)
BRD-K20361257-001-01-5 PubChem CID : 54619452		0.76 (in 4 replicates)	-0.53	0.418				Total number of assays tested in: 38.
BRD-K20361257-001-01-5 PubChem CID : 54619452		0.76 (in 4 replicates)	-0.53	0.418				Total number of assays tested in: 38.
BRD-K20039572-001-01-5 PubChem CID : 54613820		0.52 (in 4 replicates)	-0.53	0.418				Total number of assays tested in: 20.