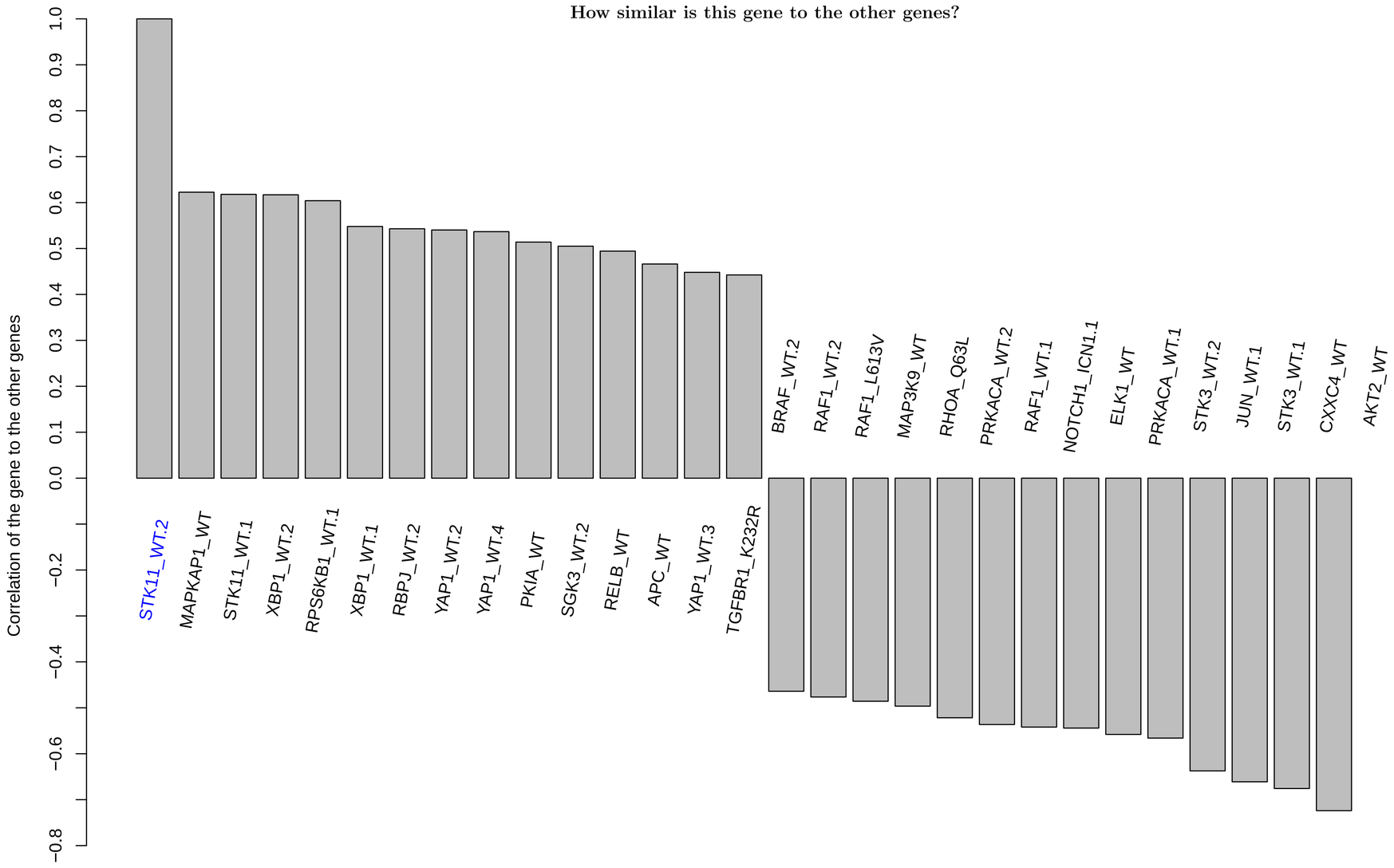
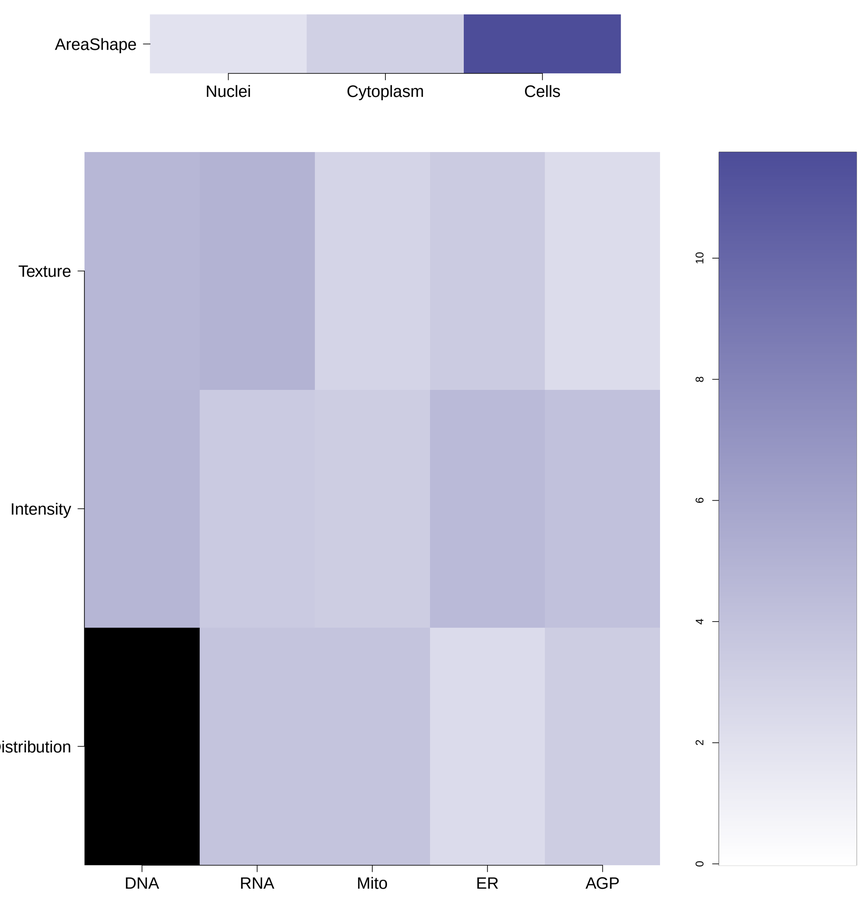
STK11_WT.2 - in Canonical TOR

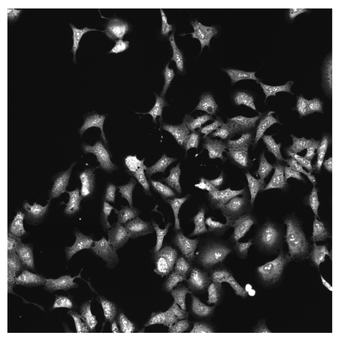
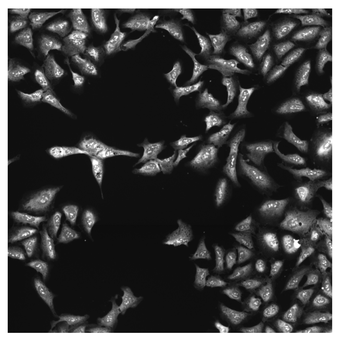
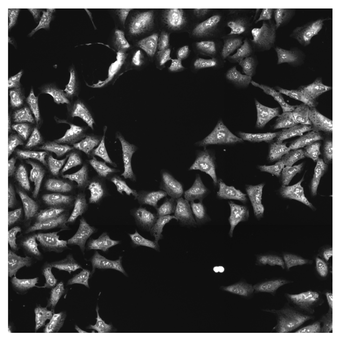
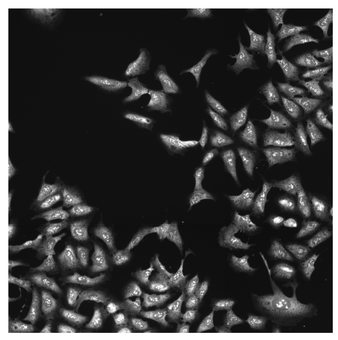
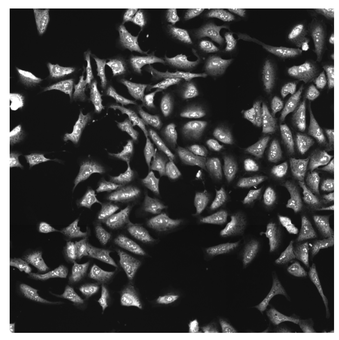
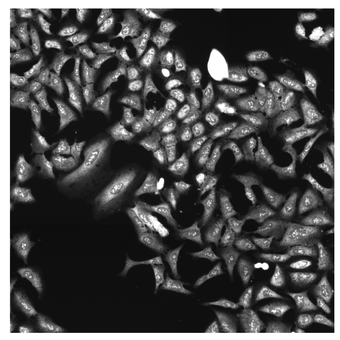
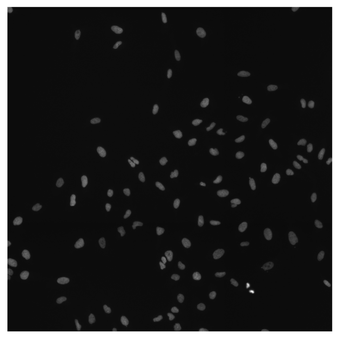
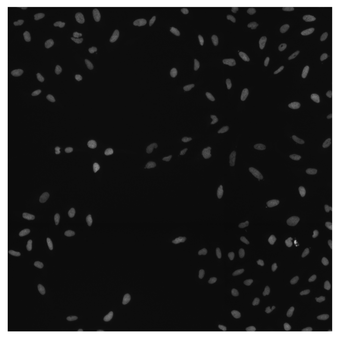
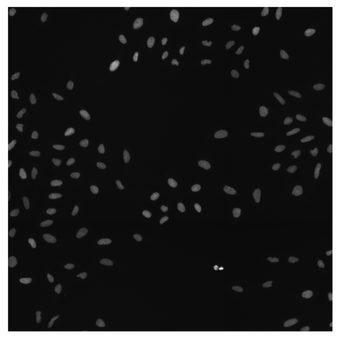
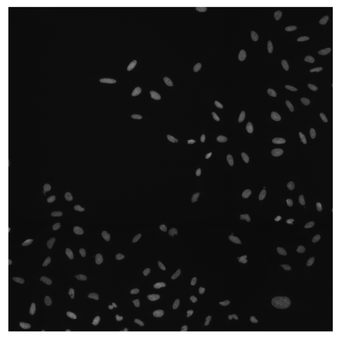
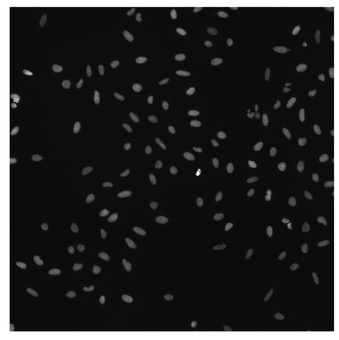
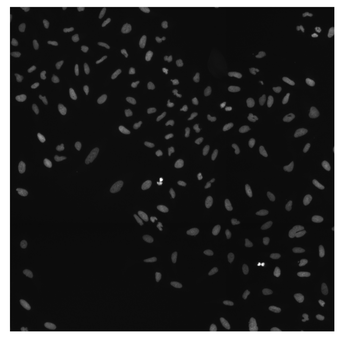
**How similar is this gene to the other genes?**



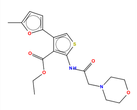
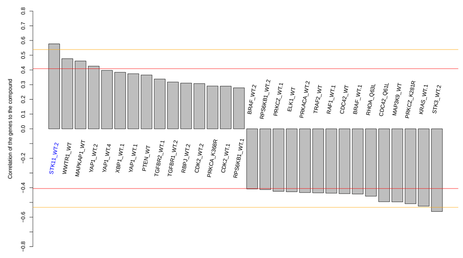
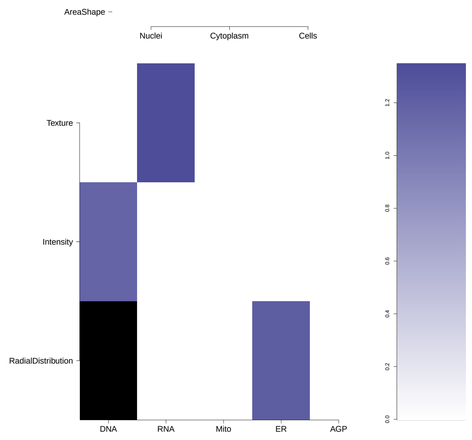
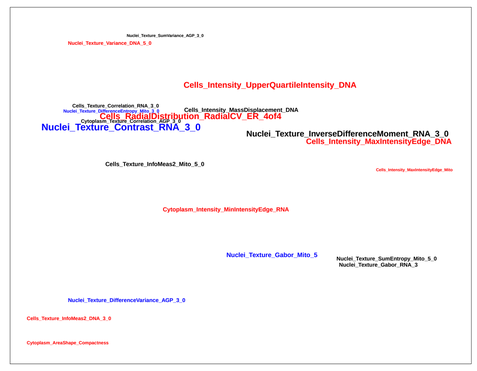
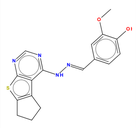
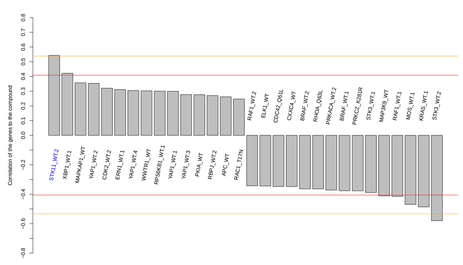
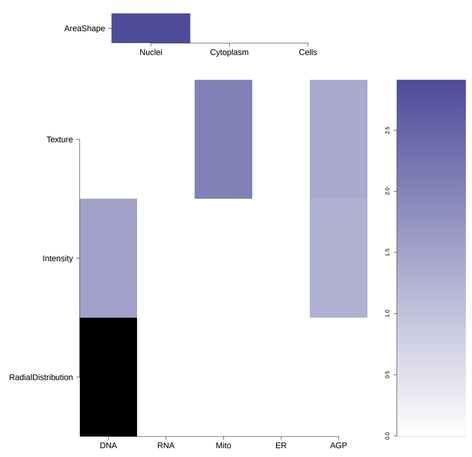
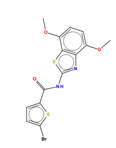
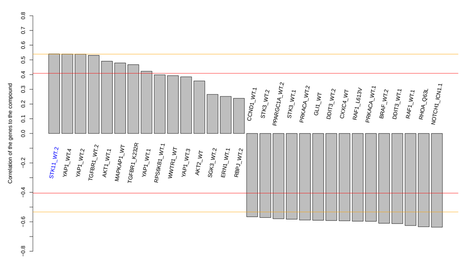
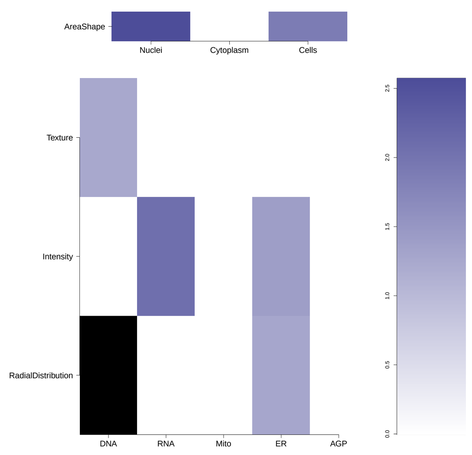
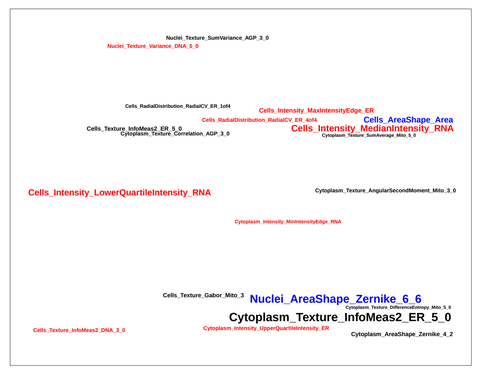
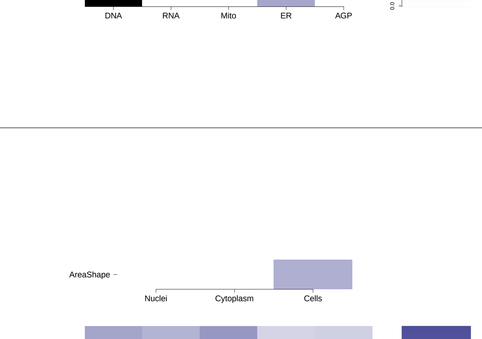

What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

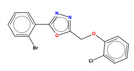
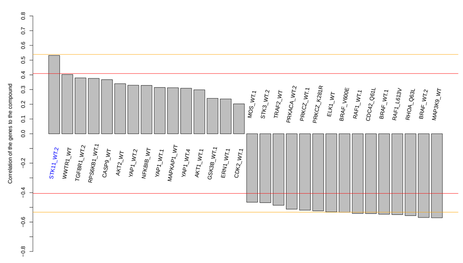
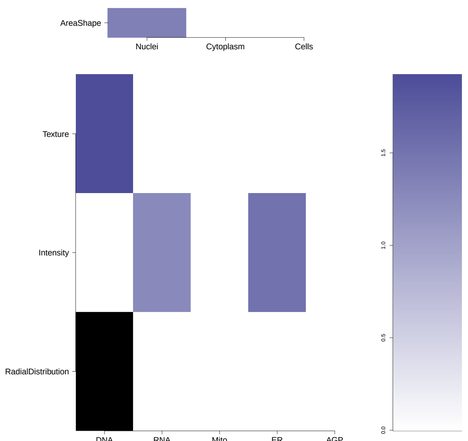
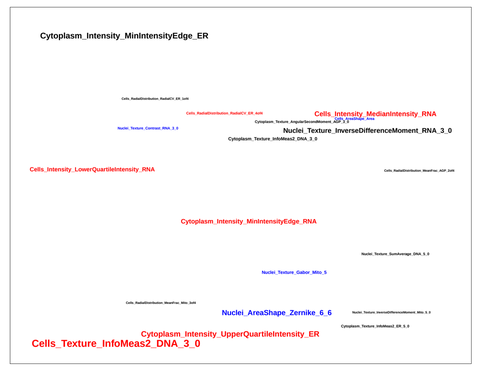
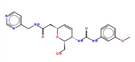
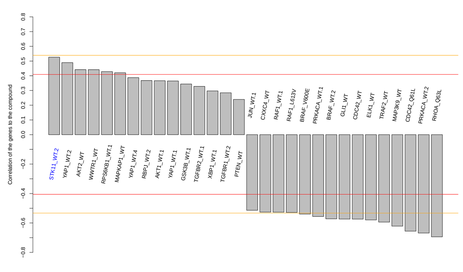
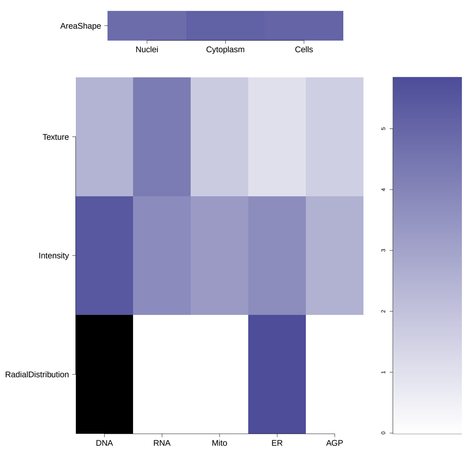
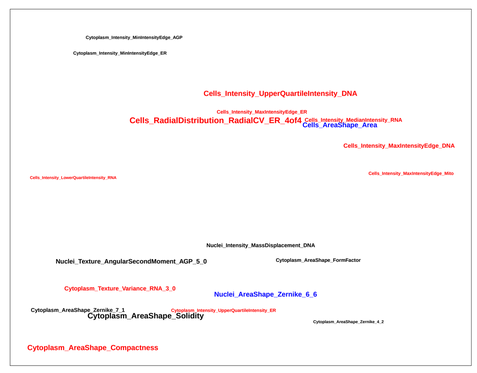
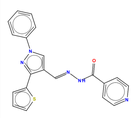
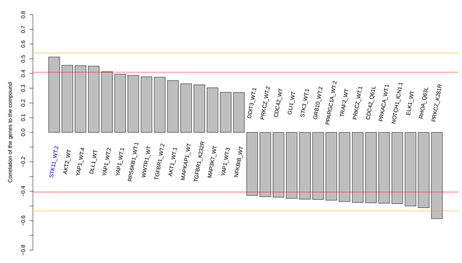
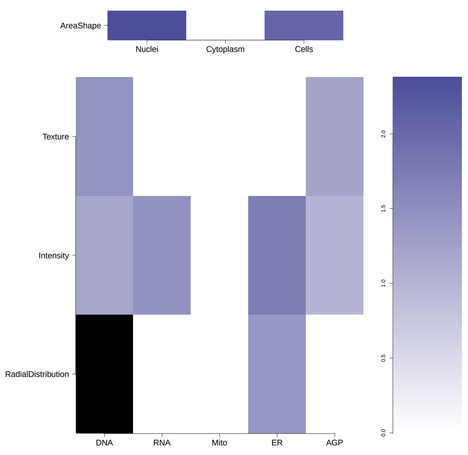
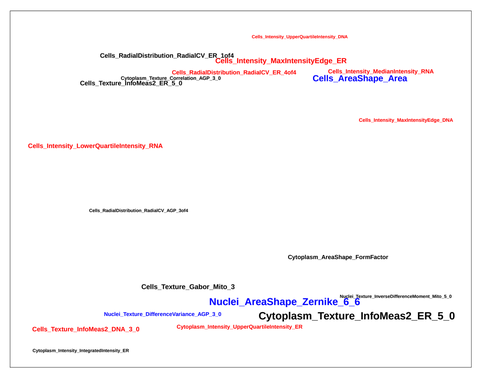
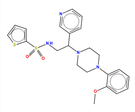
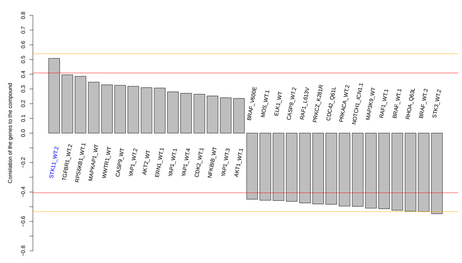
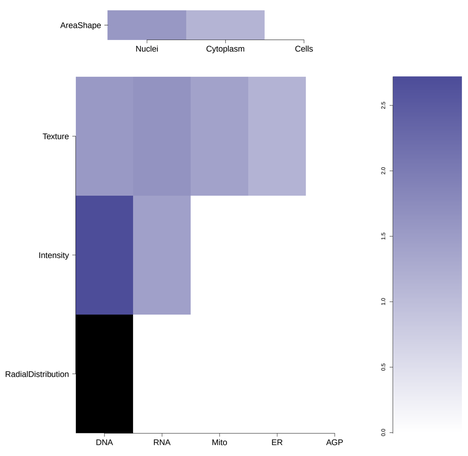
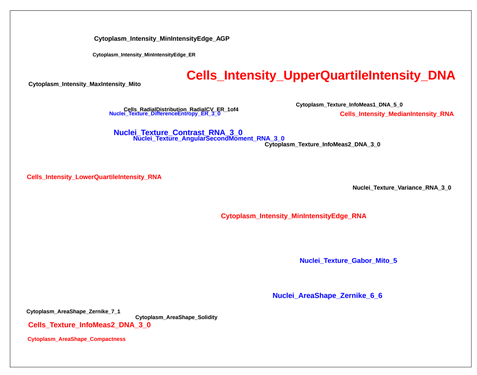
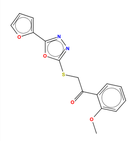
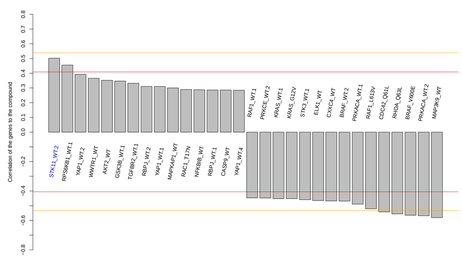
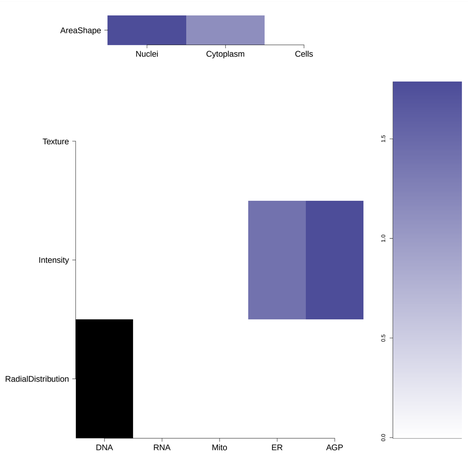
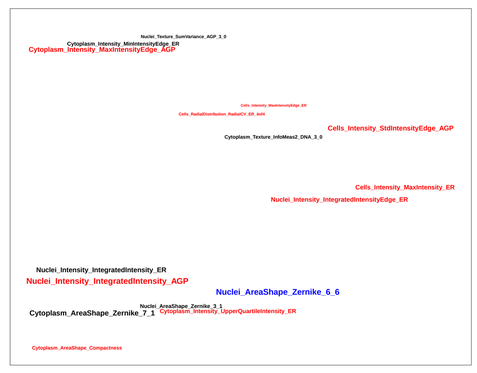


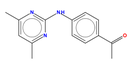
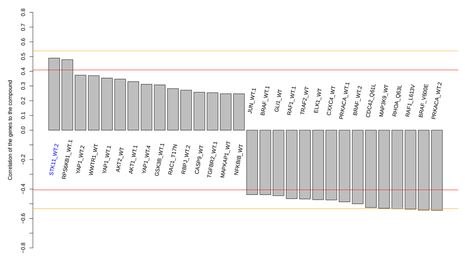
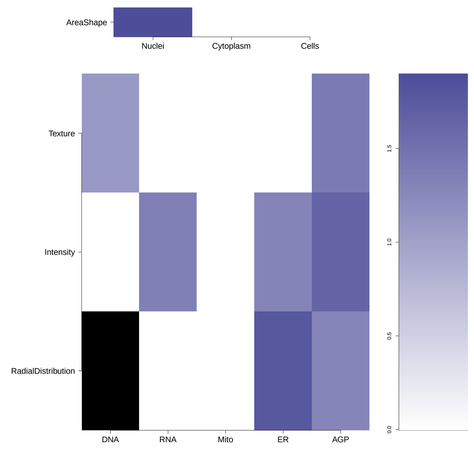
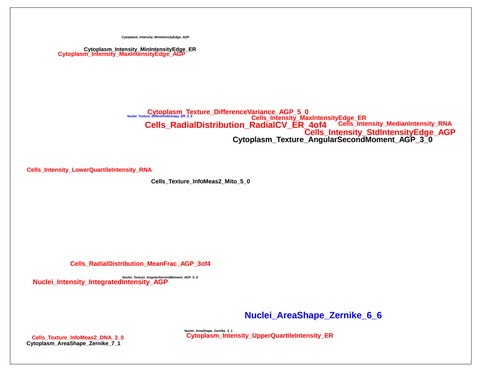
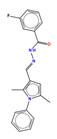
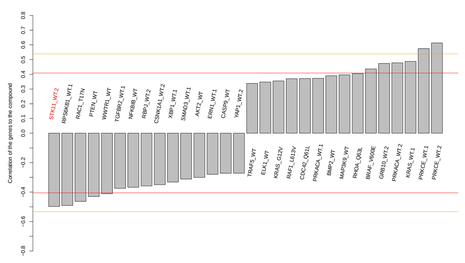
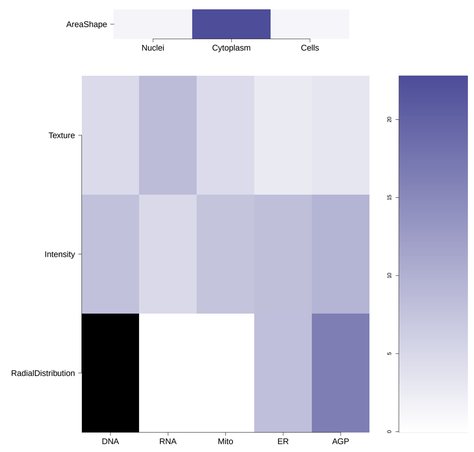

Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.


| Empty | STK11_WT.2 (41744) | STK11_WT.2 (41755) | STK11_WT.2 (41756) | STK11_WT.2 (41757) | STK11_WT.2 (41754) |
|---|---|---|---|---|---|
| RNA |  |  |  |  |  |  |
| DNA |  |  |  |  |  |  |

| Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster | Chemical structure | Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.51) | 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-K17708248-001-05-5<br>ST50134193<br>SMR000150119<br>AC1LP02B<br>MLS000570099<br>HMS2340O20<br>STL307306<br>ZINC21822453<br>T0511-6007<br>PubChem CID : 1276757 |  | 0.66 (in 2 replicates) | 0.58 | NA |  |  |  | Total number of assays tested in: 683. Active in the following assays:<br>• CYP2C9 Assay (AID 777)<br>• CYP2C19 Assay (AID 778)<br>• Leishmania major promastigote HTS (AID 1063)<br>• qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490)<br>• qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxiredoxins (AID 485364)<br>• qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)<br>• qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)<br>• qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979) |
| BRD-K62703930-001-05-3<br>HMS2622E10<br>PubChem CID : 15945340 |  | 0.57 (in 2 replicates) | 0.54 | NA |  |  |  | Total number of assays tested in: 578. Active in the following assays:<br>• HTS to identify inhibitors of zVAD Induced Cell Death in L929 Cells. (AID 1377)<br>• Primary biochemical high throughput screening assay to identify inhibitors of VIM-2 metallo-beta-lactamase (AID 1527)<br>• MLPCN Streptokinase Expression Inhibition (AID 1662)<br>• Profiling Assay to determine GST-GSH interactions in multiplex bead-based assays (AID 1769)<br>• Luminescence Microorganism-Based Dose Confirmation HTS to Identify Compounds Cytotoxic to SK(-)GAS Group A Streptococcus (AID 1900)<br>• Luminescence Microorganism-Based Dose Confirmation HTS to Identify Inhibitors of Streptokinase Promotor Activity (AID 1902)<br>• Absorbance Microorganism-Based Dose Response HTS to Identify Inhibitors of Streptokinase Expression (AID 1914)<br>• Luminescence-based cell-based primary high throughput screening assay to identify activators of the GAA850 frataxin (FXN) promoter (AID 540364)<br>• 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)<br>• qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)<br>• Counterscreen for activators of the GAA850 frataxin promoter: luminescence-based cell-based high throughput screening assay to identify activators of the GAA30 frataxin promoter (AID 588350)<br>• Luminescence-based cell-based high throughput confirmation assay for activators of the GAA850 frataxin (FXN) promoter (AID 588351)<br>• A quantitative high throughput screen for small molecules that induce DNA re-replication in SW480 colon adenocarcinoma cells. (AID 624297)<br>• Fluorescence polarization-based biochemical primary high throughput screening assay to identify inhibitors of ADP-ribosylation factor GTPase activating protein 1 (ARFGAP1) (AID 651572)<br>• Absorbance-based biochemical primary high throughput screening assay to identify inhibitors of Methionine sulfoxide reductase A (MsrA) (AID 651718)<br>• qHTS Assay for Inhibitors of the CtBP/E1A Interaction (AID 651724)<br>• qHTS Assay for Inhibitors of the Six1/Eya2 Interaction (AID 651725)<br>• HTS for Bacterial rRNA inhibitors Measured in Microorganism-Based System Using Plate Reader - 7056-01_Inhibitor_SinglePoint_HTS_Activity (AID 720706) |
| BRD-K07726175-001-06-4<br>MLS000101513<br>SMR000017682<br>F0600-1566<br>ZINC02723956<br>AC1M1ZD5<br>MLS002152803<br>BDBM39509<br>HMS2244B03<br>ZINC2723956<br>PubChem CID : 2159329 |  | NA (in 1 replicates) | 0.54 | NA |  |  |  | Total number of assays tested in: 760. Active in the following assays:<br>• Primary Cell-based High Throughput Screening assay for activators of the nuclear receptor Steroidogenic Factor 1 (SF-1) (AID 522)<br>• HTS of Estrogen Receptor- alpha Coactivator Binding inhibitors (AID 629)<br>• HTS for Estrogen Receptor-beta Coactivator Binding inhibitors (AID 633)<br>• Primary cell-based high-throughput screening assay to identify agonists of Galanin Receptor 2 (GALR2) (AID 803)<br>• uHTS of Mcl-1/Bid interaction inhibitors (AID 1021)<br>• uHTS of Mcl-1/Noxa interaction inhibitors (AID 1022)<br>• Dose Response Confirmation for Mcl-1/Bid Interaction Inhibitors (AID 1418)<br>• Identification of Novel Modulators of Cl- dependent Transport Process via HTS: Primary Screen (AID 1456)<br>• qHTS Assay for Promiscuous and Specific Inhibitors of Cruzain (without detergent) (AID 1476)<br>• HTS for small molecule inhibitors of CHOP to regulate the unfolded protein response to ER stress (AID 2732)<br>• uHTS identification of DNMT1 inhibitors in a Fluorescent Molecular Beacon assay (AID 588458)<br>• qHTS for Stage-Specific Inhibitors of Vaccinia Orthopoxvirus: Venus Reporter Primary qHTS (AID 720580) |
| BRD-K51509019-001-05-1<br>MLS000116363<br>AC1NSCTN<br>HMS1622N02<br>HMS2239F24<br>HMS3368O10<br>ZINC2498043<br>SMR000093340<br>PubChem CID : 5307570 |  | NA (in 1 replicates) | 0.53 | NA |  |  |  | Total number of assays tested in: 785. Active in the following assays:<br>• Primary Cell-based High Throughput Screening assay for activators of the nuclear receptor Steroidogenic Factor 1 (SF-1) (AID 522)<br>• Screen for Chemicals that Shorten Yeast Lifespan (AID 804)<br>• qHTS Assay for Enhancers of SMN2 Splice Variant Expression (AID 1458)<br>• MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814)<br>• Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)<br>• A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315)<br>• qHTS Assay for NPC1 Promoter Activators (AID 485313)<br>• qHTS screen for small molecules that induce genotoxicity in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504466)<br>• 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)<br>• 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)<br>• Wnt/Beta-catenin HTS Measured in Cell-Based System Using Plate Reader - 2161-01_Activator_SinglePoint_HTS_Activity (AID 743398) |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BRD-K29738272-001-05-7<br>MLS000058143<br>SMR000067553<br>ZINC02628750<br>MLS002634971<br>AC1M19D5<br>BDBM77989<br>HMS2339H20<br>ZINC2628750<br>T5270429<br>PubChem CID : 2091123 |  | 0.75 (in 2 replicates) | 0.53 | NA |  |  |  | Total number of assays tested in: 780. Active in the following assays:<br>• Primary Cell-based High Throughput Screening assay for activators of the nuclear receptor Steroidogenic Factor 1 (SF-1) (AID 522)<br>• Primary Cell-based High Throughput Screening assay for activators of the Retinoic Acid Receptor-related orphan receptor A (RORA) (AID 560)<br>• Primary Antimicrobial Assay for E. coli BW25113 and 8710;tolC::kan Protocol for 384-well HTS (AID 573)<br>• Antimicrobial Assay for E. coli BW25113 and 8710;tolC::kan - Dose Response (AID 617)<br>• qHTS Assay for Inhibitors of HPGD (15-Hydroxyprostaglandin Dehydrogenase) (AID 894)<br>• Primary cell-based high throughput screening assay to measure STAT1 activation (AID 932)<br>• HTS Assay for Activators of Cytochrome P450 2A9 (AID 1024)<br>• MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814)<br>• qHTS Assay for Modulators of miRNAs and/or Inhibitors of miR-21 (AID 2289)<br>• Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)<br>• A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315)<br>• uHTS identification of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463190)<br>• Single concentration confirmation of small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 463213)<br>• qHTS Assay for NPC1 Promoter Activators (AID 485313)<br>• HTS Assay for Allosteric Antagonists of the Human D2 Dopamine Receptor: Primary Screen for Antagonists (AID 485344)<br>• Dose Response confirmation of uHTS small molecule inhibitors of tim10-1 yeast via a luminescent assay (AID 493003)<br>• Dose Response confirmation of uHTS small molecule inhibitors of tim10-1: a luminescent TIM10 yeast counterscreen (AID 504542)<br>• Dose Response confirmation of uHTS small molecule inhibitors of tim10-1: a luminescent tim23-1 yeast counterscreen. (AID 504544)<br>• MITF Measured in Cell-Based System Using Plate Reader - 2084-01_Activator_Dose_CherryPick_Activity (AID 540258)<br>• MITF Measured in Cell-Based System Using Plate Reader - 2084-01_Activator_SinglePoint_HTS_Activity (AID 588334)<br>• qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)<br>• 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)<br>• qHTS Assay to Identify Small Molecule Activators of BRCA1 Expression (AID 624202) |
| BRD-K32797868-001-01-7<br>PubChem CID : 54641357 |  | NA (in 1 replicates) | 0.53 | NA |  |  |  | Total number of assays tested in: 43. |
| BRD-K08606983-001-05-1<br>STK138991<br>AC1OBPFE<br>SMR000259826<br>MLS000390788<br>ZINC15989497<br>T0500-2826<br>PubChem CID : 6900173 |  | NA (in 1 replicates) | 0.51 | NA |  |  |  | Total number of assays tested in: 631. Active in the following assays:<br>• Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)<br>• A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315)<br>• VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546)<br>• qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)<br>• uHTS identification of small molecule antagonists of the CCR6 receptor via a luminescent beta-arrestin assay (AID 493098)<br>• qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)<br>• uHTS identification of small molecule modulators of myocardial damage (AID 588492)<br>• Fluorescence-based cell-based primary high throughput screening assay to identify antagonists of the human trace amine associated receptor 1 (TAAR1) (AID 624466)<br>• uHTS identification of inhibitors of cullin neddylation in a TR-FRET assay (AID 651699) |
| BRD-A84109971-001-04-2<br>F0688-0070<br>SMR000016929<br>MLS000102747<br>AC1N3ZW3<br>MLS000686074<br>HMS2243O15<br>TDR78026<br>PubChem CID : 4073130 |  | NA (in 1 replicates) | 0.51 | NA |  |  |  | Total number of assays tested in: 784. Active in the following assays:<br>• CYP2C19 Assay (AID 778)<br>• Leishmania major promastigote HTS (AID 1063)<br>• qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)<br>• Primary qHTS for delayed death inhibitors of the malarial parasite plastid, 48 hour incubation (AID 504832)<br>• qHTS of D3 Dopamine Receptor Antagonist: qHTS (AID 652054)<br>• Identification of Small Molecule Correctors of the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Delta508 Mutation Function in Human Bronchial Epithelial Cells. Measured in Cell-Based System Using Plate Reader - 7017-01_Other_SinglePoint_HTS_Activity (AID 720511) |
| BRD-K17176210-001-07-5<br>MLS001033293<br>SMR000363805<br>ZINC03309101<br>AC1M7SPI<br>BDBM72589<br>HMS2690C23<br>ZINC3309101<br>T5723498<br>T0520-6979<br>PubChem CID : 2424786 |  | 0.70 (in 4 replicates) | 0.50 | NA |  |  |  | Total number of assays tested in: 624. Active in the following assays:<br>• Luminescence Cell-Based Dose Retest to Identify Potentiators of Heat Shock Factor 1 (HSF1) (AID 435004)<br>• Heat Shock Factor-1 (HSF-1) Measured in Cell-Based System Using Plate Reader - 2038-01_Activator_SinglePoint_HTS_Activity (AID 504408)<br>• Sustained Induction of HSF-1 Measured in Cell-Based System Using Plate Reader - 2038-07_Activator_Dose_CherryPick_Activity (AID 602296) |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| BRD-K79711355-001-05-3<br>ST50202888<br>ZINC00150123<br>AC1LEDU0<br>MLS001202532<br>HMS2840P14<br>ZINC150123<br>BAS 09525062<br>SMR000524460<br>PubChem CID : 734484 |  | 0.62 (in 4 replicates) | 0.49 | NA |  |  |  | Total number of assays tested in: 493. Active in the following assays:<br>• MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814)<br>• Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314)<br>• Inhibitors of Epstein-Barr LMP1 inducible NF-kappaB luciferase reporter Measured in Cell-Based System Using Plate Reader - 2122-01_Inhibitor_SinglePoint_HTS_Activity (AID 504558)<br>• 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)<br>• qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)<br>• 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) |
| BRD-K19953419-001-07-4<br>MLS000722961<br>ZINC13146701<br>SMR000304956<br>PubChem CID : 9666375 |  | 0.85 (in 2 replicates) | -0.50 | NA |  |  |  | Total number of assays tested in: 628. Active in the following assays:<br>• Counter Screen for Luciferase-based Primary Inhibition Assays (AID 1006)<br>• Luminescence-based primary biochemical high throughput screening assay to identify inhibitors of the Heat Shock Protein 90 (HSP90) (AID 1789)<br>• MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814)<br>• Luminescence-based confirmation biochemical high throughput screening assay for inhibitors of the Heat Shock Protein 90 (HSP90) (AID 1846)<br>• Luminescence-based counterscreen assay for HSP90 inhibitors: biochemical high throughput screening assay to identify inhibitors of native luciferase. (AID 1847)<br>• High throughput discovery of novel modulators of ROMK K+ channel activity: Primary Screen (AID 1918)<br>• HCS assay for microtubule stabilizers (AID 2205)<br>• Luminescence Cell-Based Dose Confimation to Identify Activators of 5'UTR Stem-Loop Driven Alpha-Synuclein mRNA Translation in H4 Neuroglioblastoma Cells (AID 2450)<br>• Luminescence Cell-Based Dose Response to Identify Activators of Luciferase Translation or Activity in H4-C Neuroglioblastoma Cells (AID 2456)<br>• Luminescence Cell-Based Dose Response to Identify Activators of 5'UTR Stem-Loop Driven Prion Protein mRNA Translation in H4-C Neuroglioblastoma Cells (AID 2457)<br>• VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546)<br>• qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)<br>• qHTS Assay for Rab9 Promoter Activators (AID 485297)<br>• qHTS Assay for NPC1 Promoter Activators (AID 485313)<br>• HTS using DiI-HDL to assay lipid transfer in ldlA[SR-BI] cells Measured in Cell-Based System Using Plate Reader - 2085-01_Inhibitor_SinglePoint_HTS_Activity (AID 488896)<br>• Luminescence-based primary cell-based high throughput screening assay to identify inhibitors of the orphan nuclear receptor subfamily 0, group B, member 1 (DAX1; NR0B1) (AID 504766)<br>• qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)<br>• A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 624296)<br>• qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)<br>• 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) |