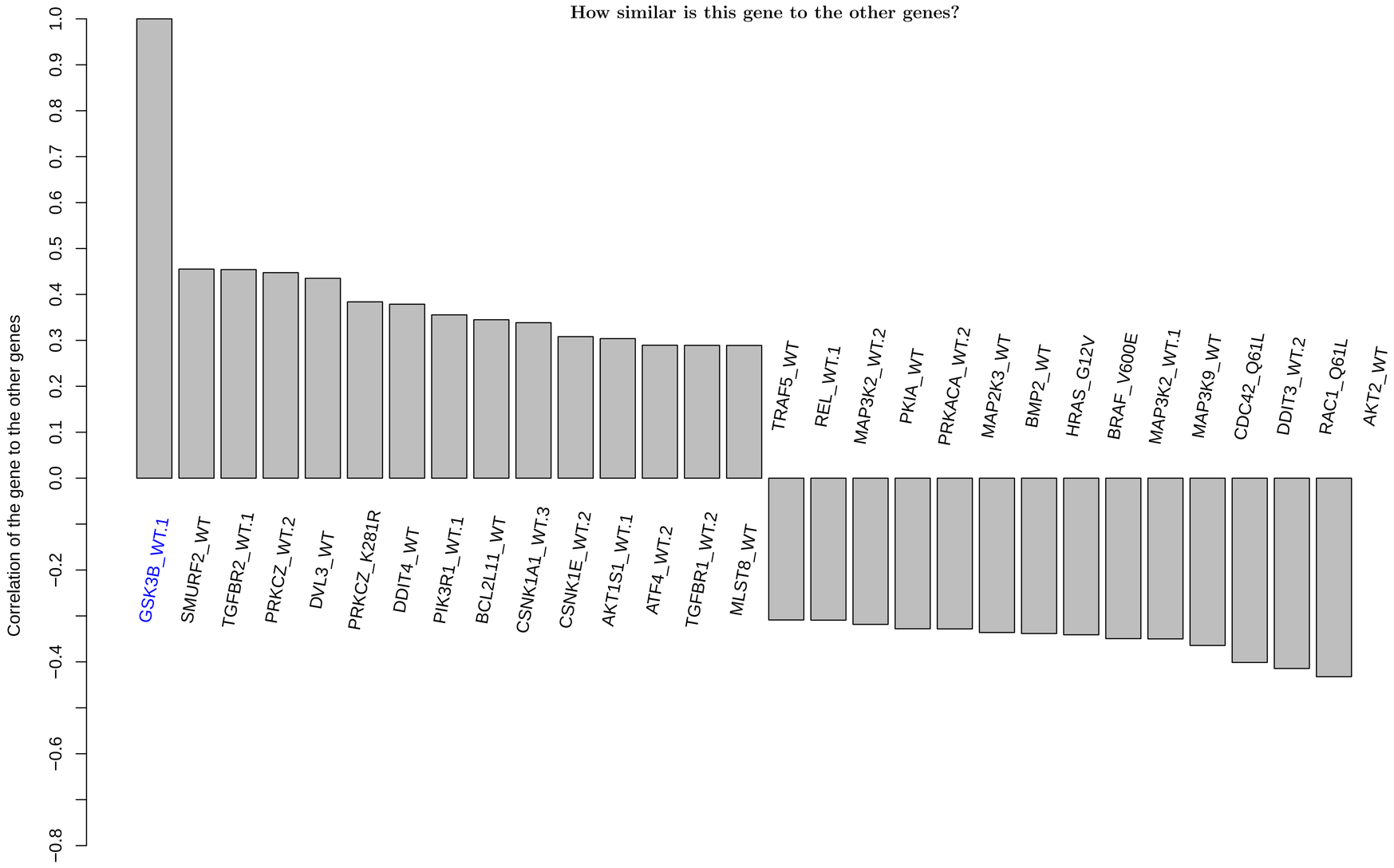
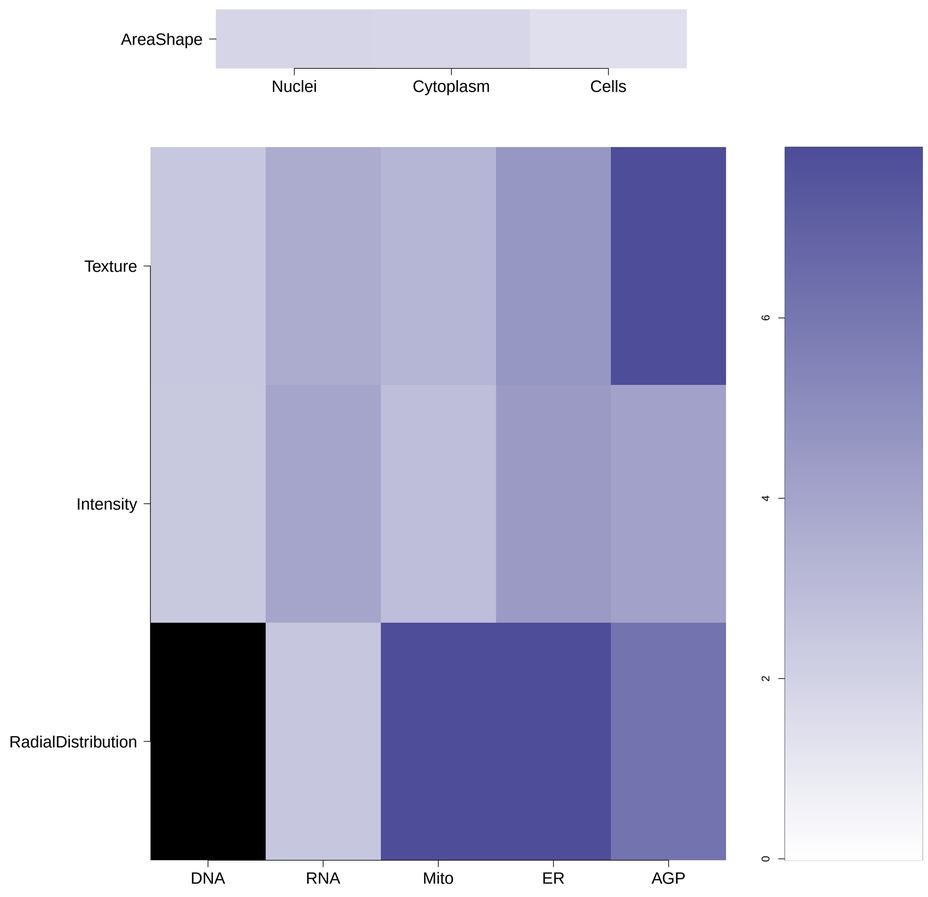
GSK3B_WT.1 - in Canonical WNT

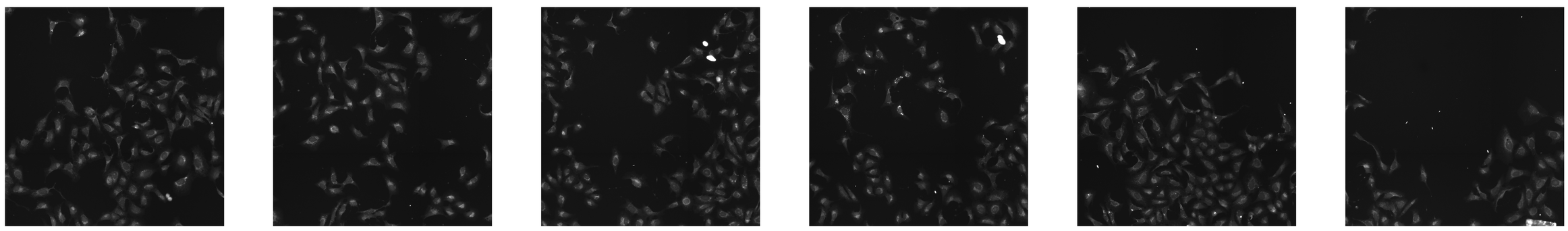
How similar is this gene to the other genes?



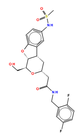
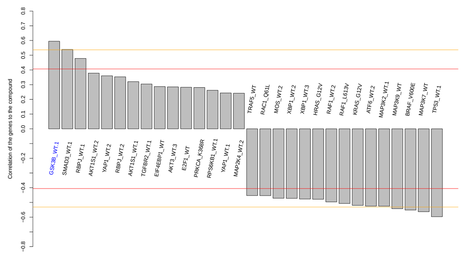
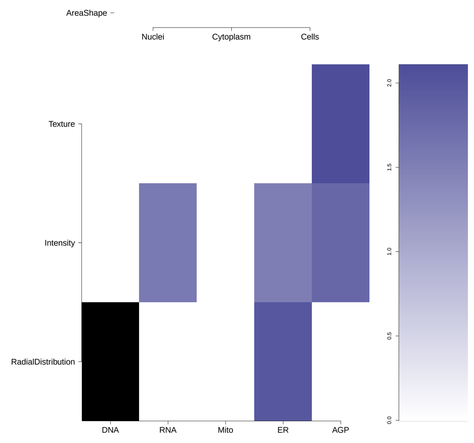
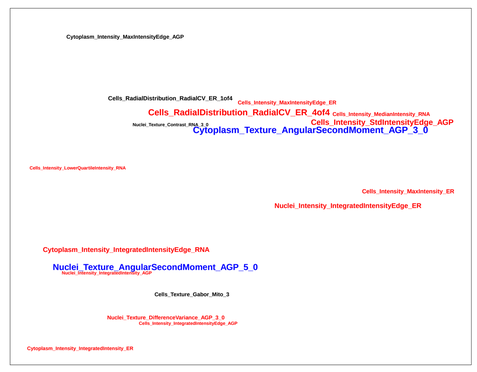
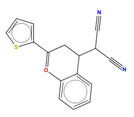
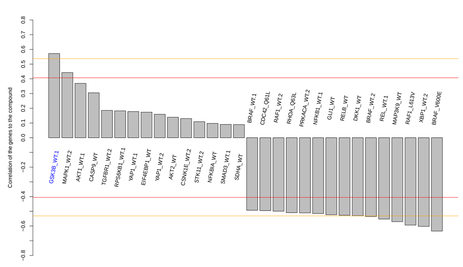
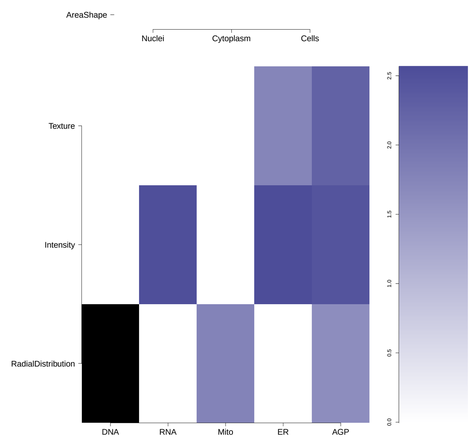
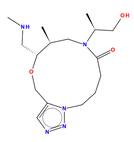
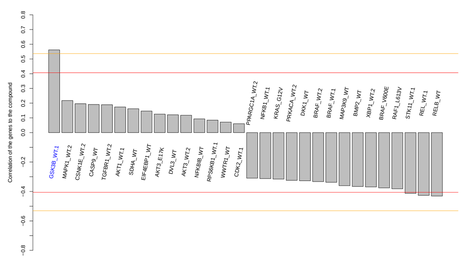
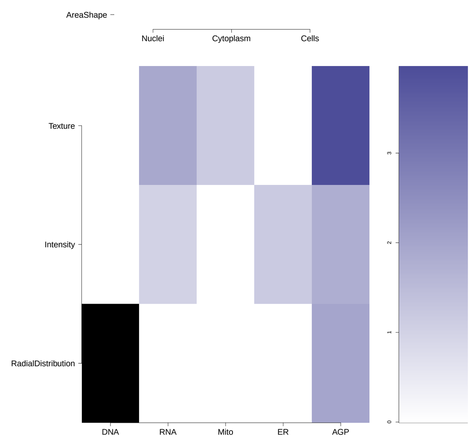
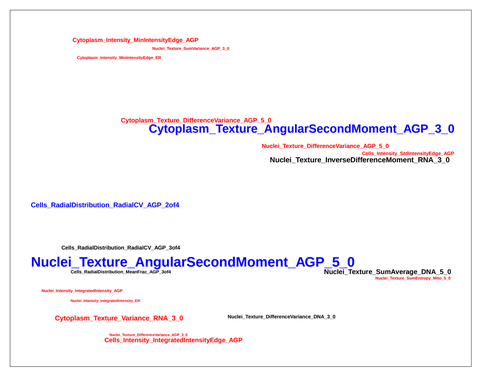
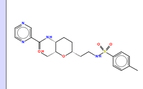
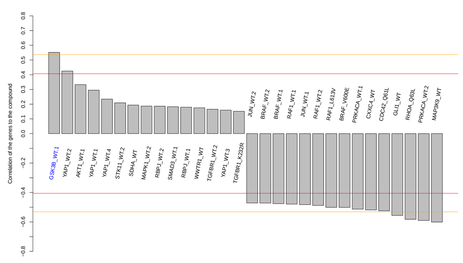
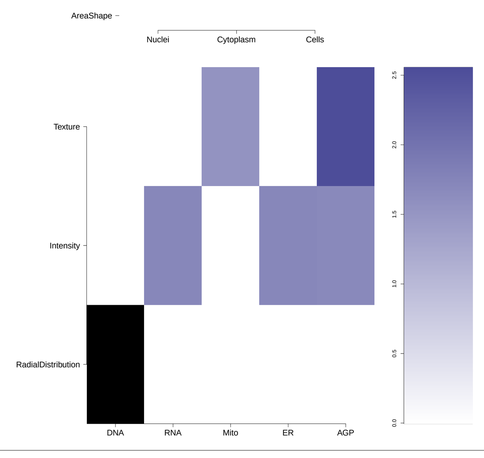
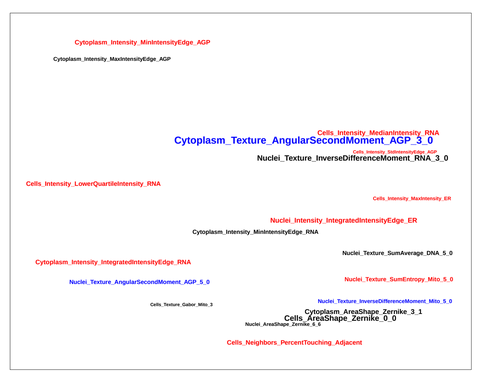
What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

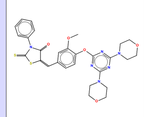
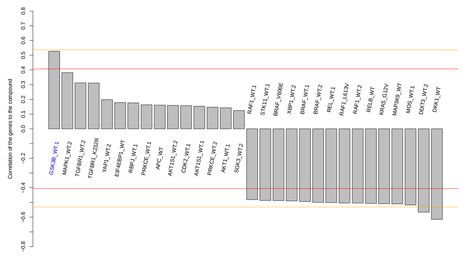
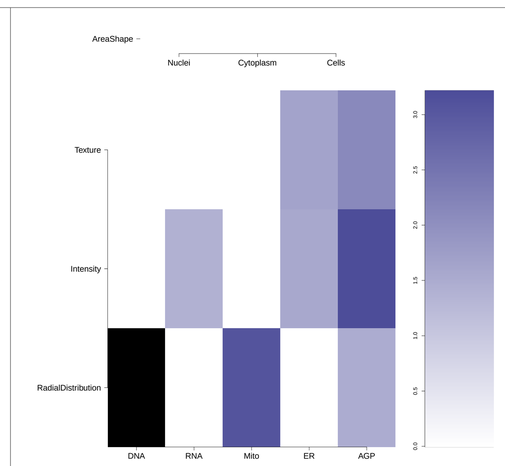
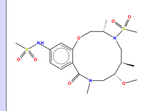
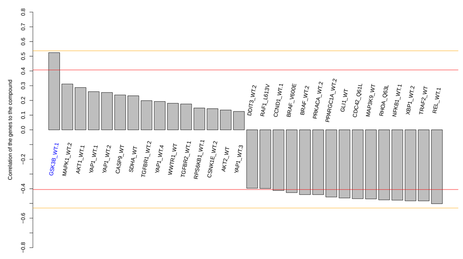
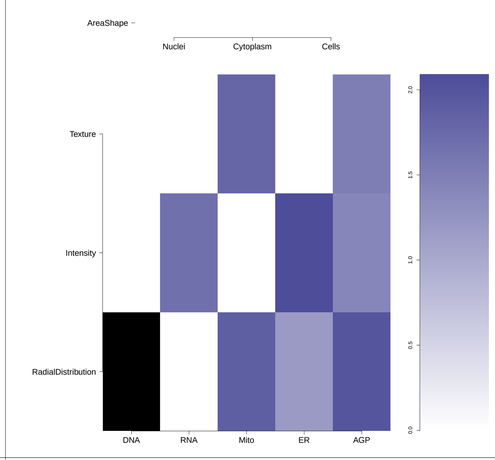
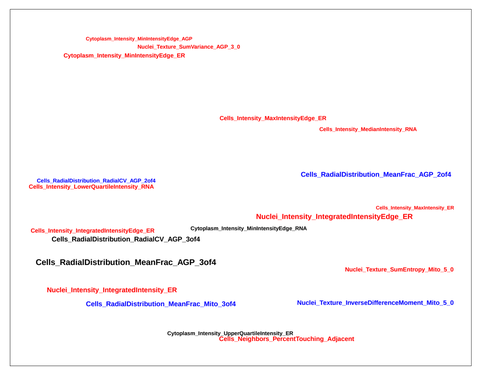
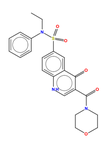
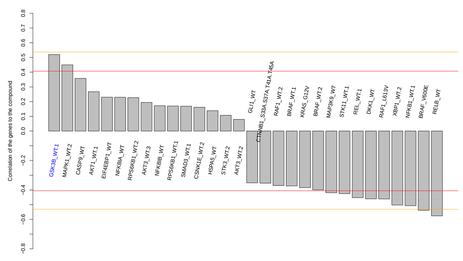
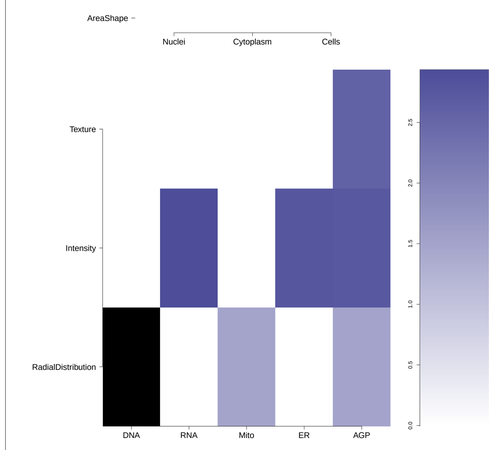
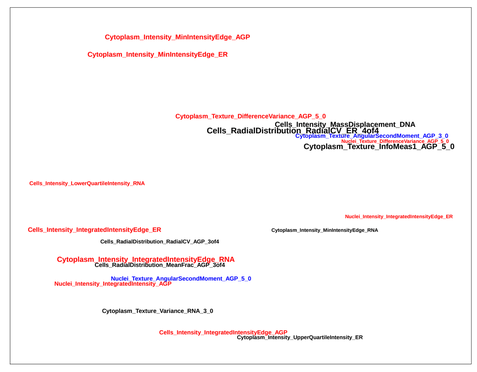
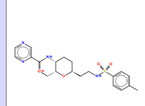
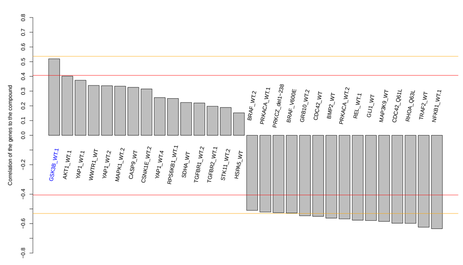
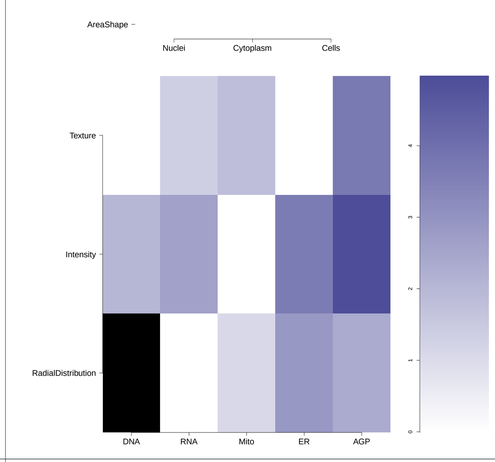
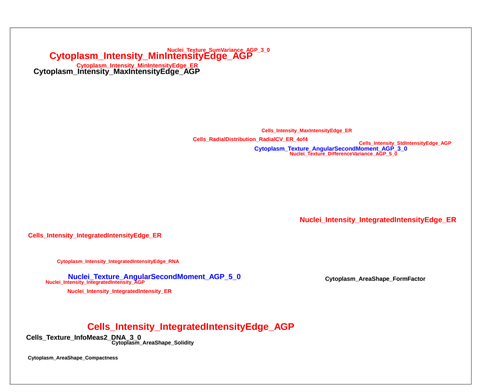
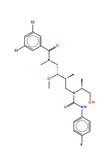
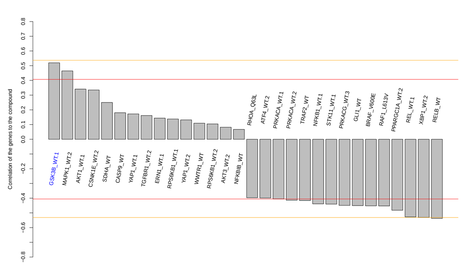
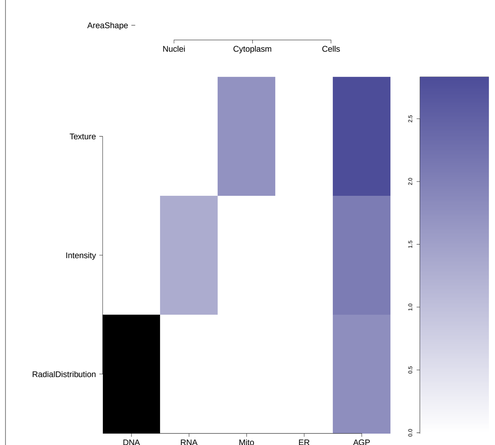
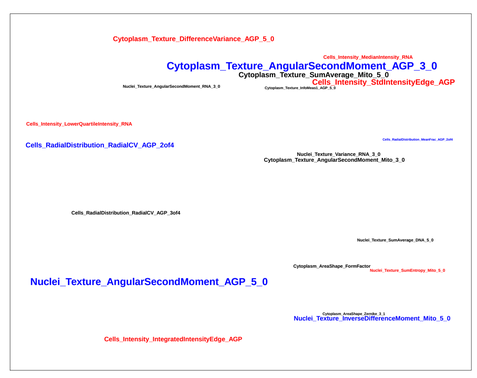


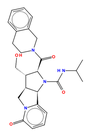
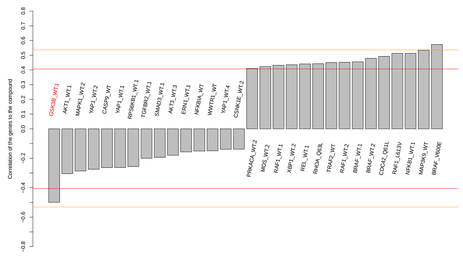
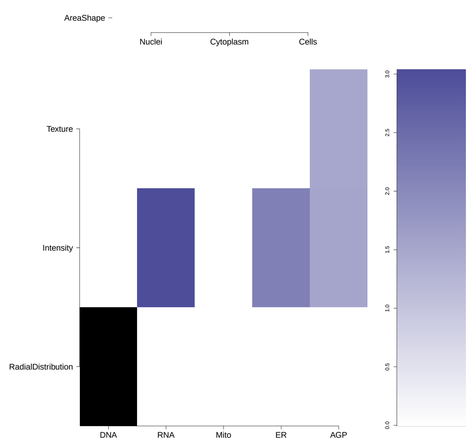
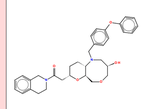
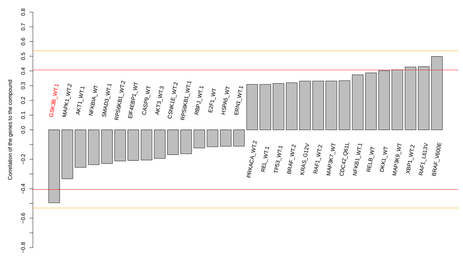
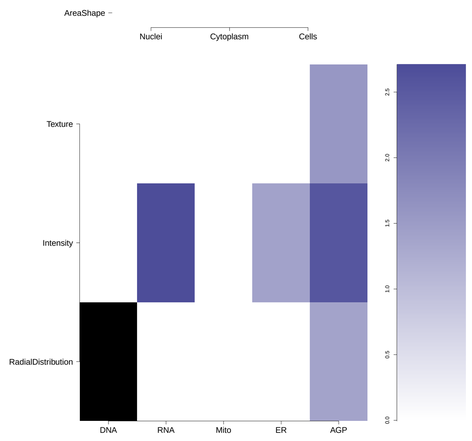
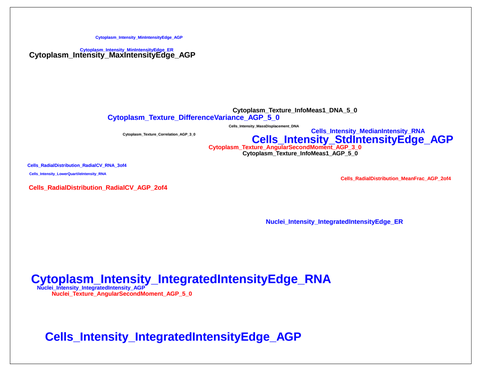
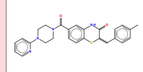
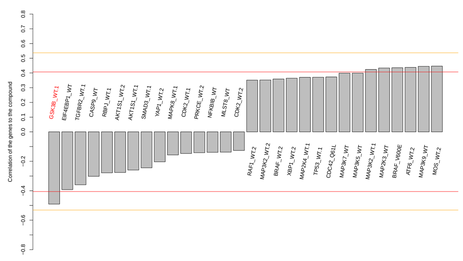
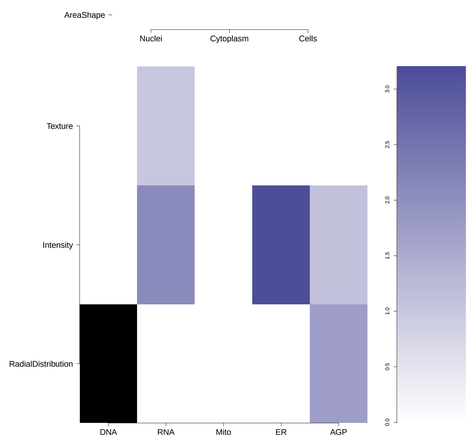
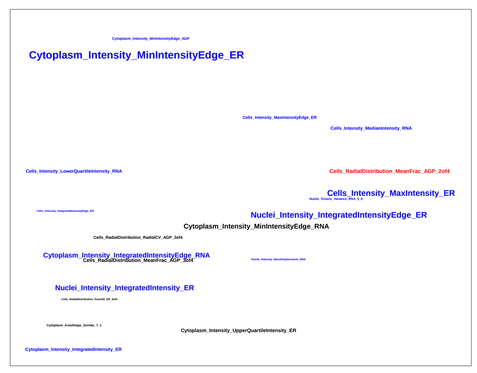
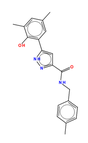
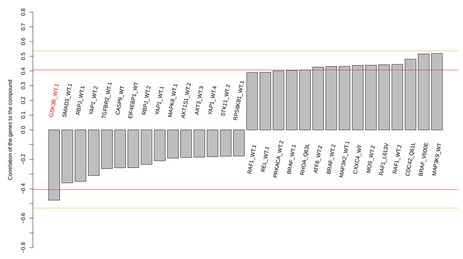
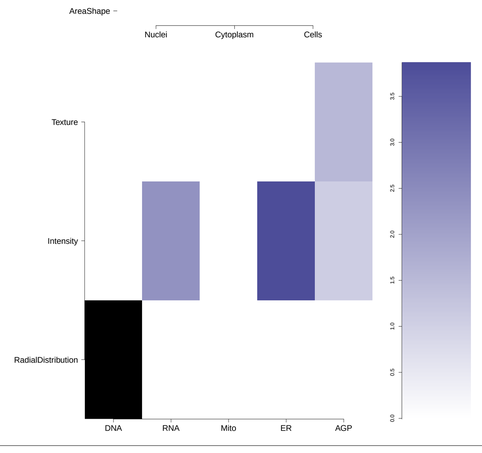
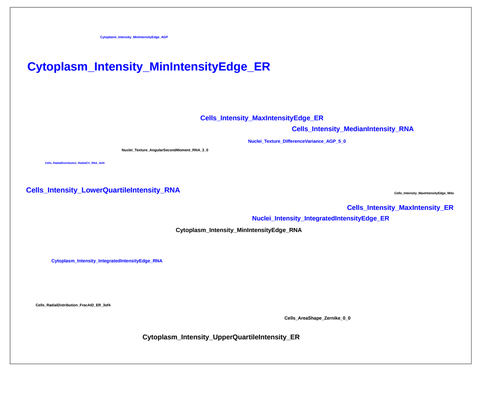
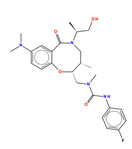
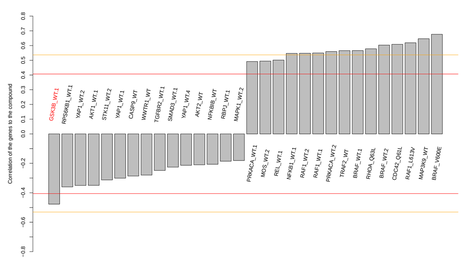
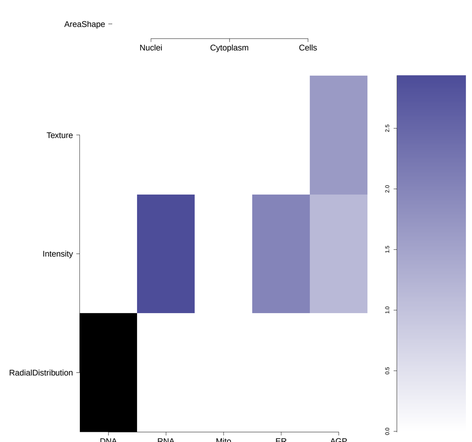
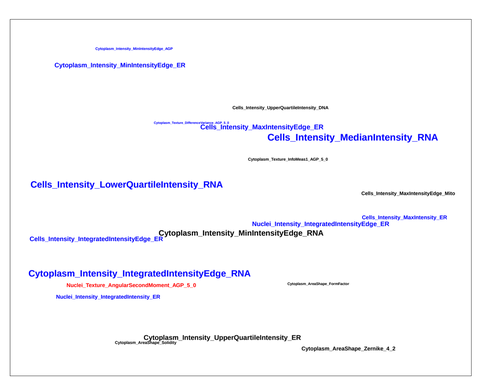
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.



Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.52)	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-K22387508-001-01-5 PubChem CID : 54646033		NA (in 1 replicates)	0.59	0.725				Total number of assays tested in: 41.
BRD-A76985501-001-06-9 AC1MWF4V MLS000589513 HMS2548J24 STK530431 SMR000212888 PubChem CID : 3723106		NA (in 1 replicates)	0.57	NA				Total number of assays tested in: 647. Active in the following assays: • High Throughput Screen to Identify Compounds that Suppress the Growth of Human Colon Tumor Cells Lacking Oncogenic Beta Catenin Expression (AID 818) • High Throughput Screen to Identify Compounds that Suppress the Growth of Cells with a Deletion of the PTEN Tumor Suppressor (AID 827) • Leishmania major promastigote HTS (AID 1063) • qHTS for Inhibitors of Tau Fibril Formation, Thioflavin T Binding (AID 1460) • uHTS luminescence assay for the identification of compounds that inhibit NOD1 (AID 1578) • Fluorescence Cell-Free Homogenous Primary HTS to Identify Inhibitors of RecA Intein Splicing Activity (AID 2221) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) • Fluorescence Cell-Free Homogeneous Counter Screen to Identify Inhibitors of GFP Chromophore Formation (AID 434968) • Fluorescence Cell-Free Homogeneous Dose Retest to Identify Inhibitors of RecA-Intein Splicing Activity (AID 435010) • Fluorescence Cell-Free Homogeneous Secondary Screen to Identify Non-Covalent Inhibitors of RecA-Intein Splicing Activity (AID 449750) • 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) • Single concentration confirmation of uHTS for Inhibitors of Mdm2/MdmX interaction in luminescent format. (AID 489028) • Single concentration confirmation of inhibitors of Mdm2/MdmX interaction using a Full-Length Luciferase Counterscreen assay (AID 504607) • Single concentration confirmation of inhibitors of Mdm2/MdmX interaction using a Brca1/Bard1 BiLC Counterscreen assay. (AID 504668) • HTS Assay for Peg3 Promoter Inhibitors (AID 588405) • qHTS Assay for Inhibitors of Mammalian Selenoprotein Thioredoxin Reductase 1 (TrxR1): qHTS (AID 588453) • Vero 76 Cytoxicity Assay for VEEV Compounds (AID 588719) • uHTS identification of cystic fibrosis induced NFkb Inhibitors in a fluoresence assay (AID 588850) • qHTS for Inhibitors of TGF-b (AID 588855) • uHTS determination of small molecule cytotoxicity in a fluorescence assay to identify cystic fibrosis induced NFkb Inhibitors (AID 602141) • Luminescence-based biochemical primary high throughput screening assay to identify inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5) (AID 602281) • 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) • Absorbance-based biochemical primary high throughput screening assay to identify inhibitors of Methionine sulfoxide reductase A (MsrA) (AID 651718) • qHTS of TDP-43 Inhibitors (AID 652104) • 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) • High Throughput Screening for Foot and Mouth Disease Virus Antivirals (AID 1159524)
BRD-K21906179-001-01-1 MLS003129748 SMR001834194 PubChem CID : 44494488		0.53 (in 7 replicates)	0.56	NA				Total number of assays tested in: 91.
BRD-K52525325-001-01-4 PubChem CID : 54641100		NA (in 1 replicates)	0.55	NA				Total number of assays tested in: 37.

BRD-K49998974-001-05-4 AC1NT3BB MLS000700033 HMS2583K11 ZINC8684194 CCG-13239 SMR000228443 5839-29-2 PubChem CID : 5343920		NA (in 1 replicates)	0.53	NA				Total number of assays tested in: 658. Active in the following assays: • Screen for Chemicals that Inhibit the RAM Network (AID 868) • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • uHTS identification of small molecule inhibitors of the thioesterase domain of fatty acid synthase via a fluorescence intensity assay (AID 602261)
BRD-K76885311-001-01-0 PubChem CID : 54632584		0.58 (in 4 replicates)	0.52	0.725				Total number of assays tested in: 35.
BRD-K70839485-001-04-7 SMR000032901 AC1MMOM2 MLS000046890 MLS000862985 HMS1512P13 HMS2169H18 HMS3308E15 ZINC4004103 EU-0031985 PubChem CID : 3242000		NA (in 1 replicates)	0.52	NA				Total number of assays tested in: 789. 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) • Profiling the NIH Molecular Libraries Small Molecule Repository: Autofluorescence at 339/460 nm (AID 709) • qHTS Assay for Inhibitors of HADH2 (Hydroxyacyl-Coenzyme A Dehydrogenase, Type II) (AID 886) • uHTS of Mcl-1/Bid interaction inhibitors (AID 1021) • qHTS Assay for Inhibitors of Tyrosyl-DNA Phosphodiesterase (TDP1) (AID 485290) • uHTS Colorimetric assay for identification of inhibitors of Scp-1 (AID 493091) • Single concentration confirmation of uHTS hits for Scp-1 phosphatase using a colorimetric assay (AID 540281) • TRFRET-based biochemical primary high throughput screening assay to identify small molecules that bind to the HIV-1-gp120 binding antibody, PG9 (AID 624416) • Counterscreen for discovery of small molecules that bind to the HIV-1-gp120 binding antibody, PG9: TR-FRET-based biochemical high throughput assay to identify small molecules that bind to the control antibody, PGV04, which binds to a site on the HIV envelope different from the PG9 binding site (AID 651604) • qHTS Assay for Activators of ClpP (AID 651965)
BRD-K39107373-001-01-0 PubChem CID : 54649280		0.58 (in 2 replicates)	0.52	0.900				Total number of assays tested in: 37.
BRD-K84760360-001-01-5 PubChem CID : 54641098		NA (in 1 replicates)	0.52	NA				Total number of assays tested in: 37.
BRD-K42959654-001-01-9 PubChem CID : 54646040		NA (in 1 replicates)	0.51	0.725				Total number of assays tested in: 42.
BRD-K98220872-001-05-6 SMR000063175 T5226390 AC1M0LWL MLS000097570 MLS002634422 HMS2371M15 ZINC2617377 ZINC02617377 PubChem CID : 2079202		NA (in 1 replicates)	-0.57	NA				Total number of assays tested in: 772. 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) • uHTS of Mcl-1/Bid interaction inhibitors (AID 1021)

BRD-K33341138-001-01-7 PubChem CID : 54660960		0.57 (in 4 replicates)	-0.50	0.275				Total number of assays tested in: 28.
BRD-K07339740-001-01-3 PubChem CID : 54657692		0.58 (in 4 replicates)	-0.50	0.275				Total number of assays tested in: 24. Active in the following assays: • Inhibitors of Epstein-Barr LMP1 inducible NF-kappaB luciferase reporter Measured in Cell-Based System Using Plate Reader - 2122-06_Inhibitor_Dose_DryPowder_Activity_Set2 (AID 624361) • Inhibitors of Epstein-Barr LMP1 inducible NF-kappaB luciferase reporter Measured in Cell-Based System Using Plate Reader - 2122-05_Inhibitor_Dose_DryPowder_Activity_Set2 (AID 624369) • Inhibitors of Epstein-Barr LMP1 inducible NF-kappaB luciferase reporter Measured in Cell-Based System Using Plate Reader - 2122-01_Inhibitor_Dose_DryPowder_Activity_Set2 (AID 624376) • HTS for PAX8 inhibitors using PAX8 luciferase reporter gene assay in RMG-I cells Measured in Cell-Based System Using Plate Reader - 7054-01_Inhibitor_SinglePoint_HTS_Activity (AID 652154)
BRD-K80885084-001-07-6 MLS000925104 SMR000624050 MLS003880320 BDBM53295 ZINC32975909 PubChem CID : 24793769		0.53 (in 2 replicates)	-0.49	NA				Total number of assays tested in: 497. Active in the following assays: • MLPCN Streptokinase Expression Inhibition (AID 1662) • MLPCN maternal gene expression-MEX-5 TCR-2 binding assay-Primary Screen (AID 1832) • Luminescence Microorganism-Based Dose Confirmation HTS to Identify Compounds Cytotoxic to SK(-)GAS Group A Streptococcus (AID 1900) • Luminescence Microorganism-Based Dose Confirmation HTS to Identify Inhibitors of Streptokinase Promotor Activity (AID 1902) • Luminescence Microorganism-Based Dose Response HTS to Identify Compounds Cytotoxic to Streptococcus (AID 1915) • Fluorescent Polarization Homogeneous Dose Response HTS to Indentify Inhibitors of Mex-5 Binding to TCR-2 (AID 1960) • Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of tRNA 2'-phosphotransferase (TPT1). (AID 1962) • Fluorescent Polarization Homogeneous Dose Response HTS to Indentify Inhibitors of POS-1 Binding to mex-3-RNA (AID 1964) • Fluorescence polarization-based biochemical high throughput confirmation assay to identify inhibitors of tRNA 2'-phosphotransferase (TPT1). (AID 2149) • Fluorescence polarization-based counterscreen assay for inhibitors of tRNA 2'-phosphotransferase (TPT1): biochemical high throughput screening assay to identify inhibitors of RNAse T1. (AID 2153) • Antagonist of Human D 1 Dopamine Receptor: qHTS (AID 504652) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • A quantitative high throughput screen for small molecules that induce DNA re-replication in MCF 10a normal breast cells. (AID 624296)
BRD-K20234911-001-05-3 AC1O0RHJ MLS000779194 HMS2744J08 SMR000415887 PubChem CID : 6100133		0.65 (in 2 replicates)	-0.48	NA				Total number of assays tested in: 566. Active in the following assays: • 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)
BRD-K88156935-001-01-8 PubChem CID : 44494858		0.66 (in 4 replicates)	-0.48	0.855				Total number of assays tested in: 53.

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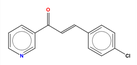
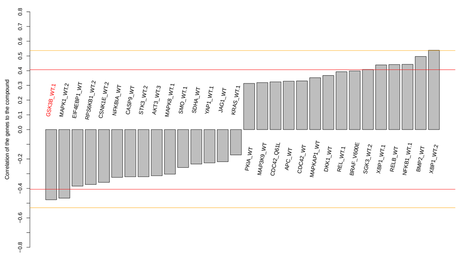
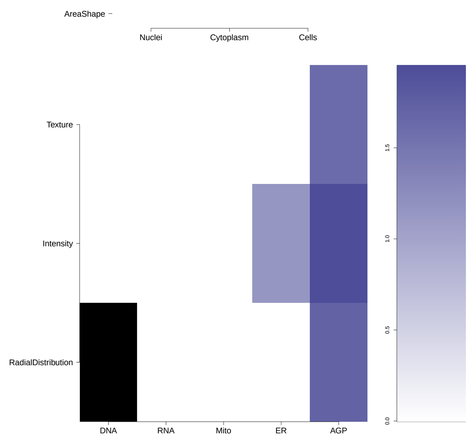


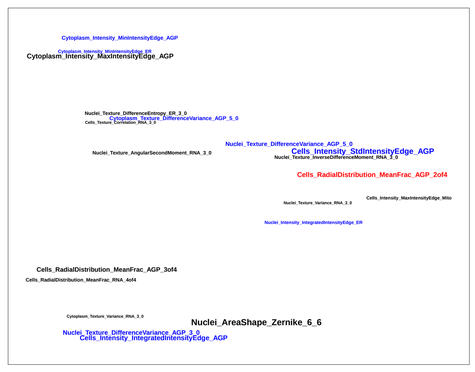
NA (in 1 replicates)

-0.48

NA







Total number of assays tested in: 690. Active in the following assays:

- Human H69AR Lung Tumor Cell Growth Inhibition Assay - 86K Screen (AID 598)
- Human Lung Fibroblast Proliferation Assay (AID 719)
- Modulators of Post-Golgi Transport (AID 739)
- CYP2C9 Assay (AID 777)
- CYP2C19 Assay (AID 778)
- High Throughput Screen to Identify Compounds that Suppress the Growth of Human Colon Tumor Cells Lacking Oncogenic Beta Catenin Expression (AID 818)
- Human Fibroblast Cell Proliferation Assay - Dose Response (AID 821)
- Human Endothelial Cell Proliferation Assay - Dose Response (AID 822)
- High Throughput Screen to Identify Compounds that Suppress the Growth of Cells with a Deletion of the PTEN Tumor Suppressor (AID 827)
- High Throughput Screen to Identify Compounds that Suppress the Growth of Human Colon Tumor Cells Lacking Oncogenic Beta Catenin Expression - Dose Response (AID 1045)
- High Throughput Screen to Identify Compounds that Suppress the Growth of Cells with a Deletion of the PTEN Tumor Suppressor - Dose Response (AID 1047)
- Leishmania major promastigote HTS (AID 1063)
- HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules. (AID 1381)
- High Throughput Screen to Identify Inhibitors of Mycobacterium tuberculosis H37Rv (AID 1626)
- Primary cell-based high-throughput screening assay for identification of compounds that inhibit/block inward-rectifying potassium ion channel Kir2.1 (AID 1672)
- Fluorescence-based primary cell-based high throughput screening assay to identify antagonists of the G-protein coupled receptor 7 (GPR7). (AID 1861)
- High throughput discovery of novel modulators of ROMK K+ channel activity: Retest of Primary Hits (AID 1917)
- High throughput discovery of novel modulators of ROMK K+ channel activity: Primary Screen (AID 1918)
- Fluorescence-based confirmation cell-based high throughput screening assay to identify antagonists of the G-protein coupled receptor 7 (GPR7). (AID 1952)
- Confirmatory screen for compounds that inhibit/block inward-rectifying potassium ion channel Kir2.1 (AID 2032)
- Fluorescence-based counterscreen for antagonists of the G-protein coupled receptor 7 (GPR7): cell-based high throughput screening assay to identify antagonists of the melanin-concentrating hormone receptor 1 (MCHR1). (AID 2148)
- Primary cell-based high-throughput screening assay for identification of compounds that inhibit KCNQ2 potassium channels (AID 2156)
- VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546)
- HCS to Identify Inhibitors of Dynein Mediated Cargo Transport on Microtubules: Confirmation Assay (AID 463116)
- qHTS Assay for the Inhibitors of Schistosoma Mansoni Peroxiredoxins (AID 485364)
- Confirmatory screen for compounds that inhibit KCNQ2 potassium channels (AID 493025)
- qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)
- Inhibitors of the vitamin D receptor (VDR): qHTS (AID 504847)
- qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)
- qHTS Assay for Inhibitors of Mammalian Selenoprotein Thioredoxin Reductase 1 (TrxR1): qHTS (AID 588453)
- qHTS for Inhibitors of the vitamin D receptor (VDR): Hit Validation in Primary Screen (AID 602199)
- qHTS for Inhibitors of the vitamin D receptor (VDR): Hit Validation using a Fluorescein Assay (AID 602200)
- Luminescence-based biochemical primary high throughput screening assay to identify inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5) (AID 602281)
- Luminescence-based biochemical high throughput confirmation assay for inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5) (AID 651612)
- qHTS Assay for Inhibitors of the HIV-1 protein Vpr (AID 651644)
- Counterscreen for inhibitors of the interaction of the lipase co-activator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5): Luminescence-based biochemical high throughput assay to identify inhibitors of Hepatocyte nuclear factor 4 (HNF4) dimerization (AID 651674)
- qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in absence of CPT (AID 686978)
- qHTS for Inhibitors of human tyrosyl-DNA phosphodiesterase 1 (TDP1): qHTS in cells in presence of CPT (AID 686979)

BRD-K28909472-001-05-3
MLS000736773
NSC70534
AC1L5IE8
CTK7D8490
HMS2884J11
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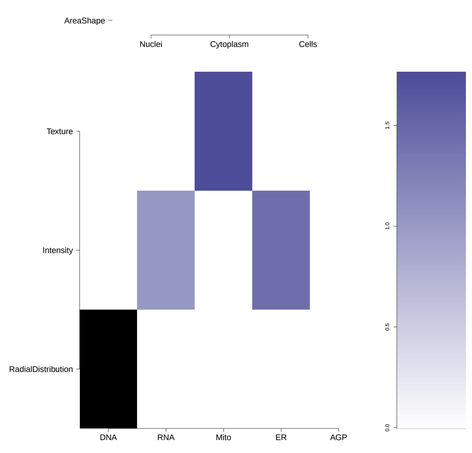
0.59 (in 3 replicates)

-0.47

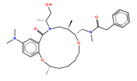
NA



Total number of assays tested in: 566. Active in the following assays:

- Fluorescence Cell-Free Homogeneous Primary HTS to Identify Inhibitors of the RanGTP-Importin-beta complex (AID 2216)

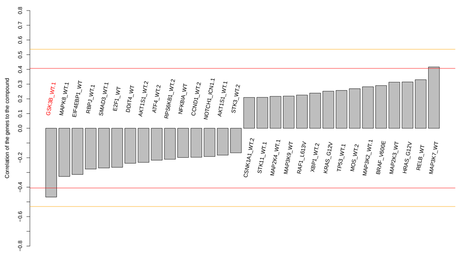
BRD-K33939287-001-01-7
PubChem CID : 49843059

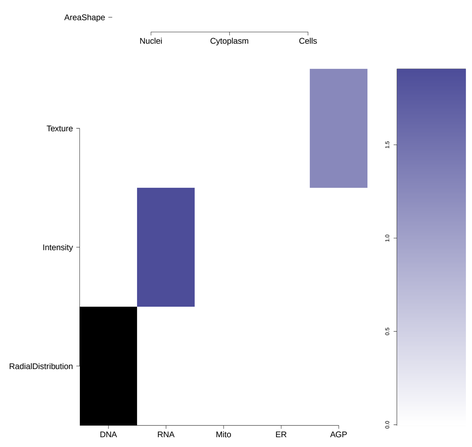


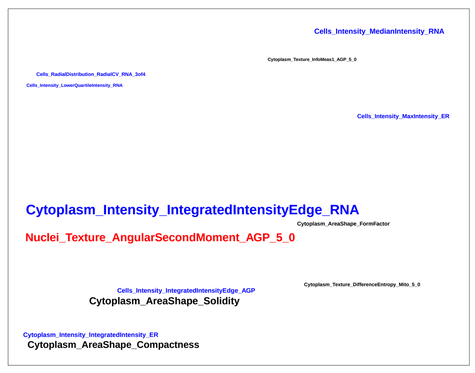
0.52 (in 4 replicates)

-0.47

0.275

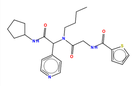
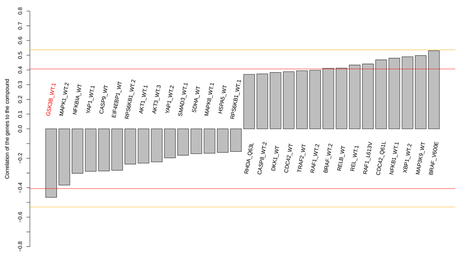
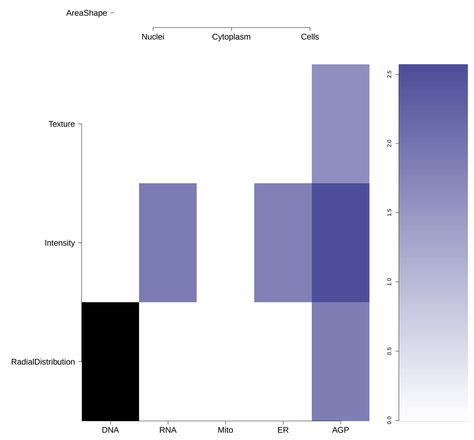
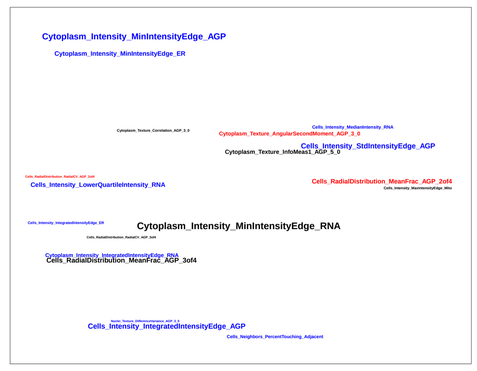






Total number of assays tested in: 43. Active in the following assays:

- MLPCN PGC1a Modulators Measured in Cell-Based System Using Plate Reader - 2139-01_Activator_SinglePoint_HTS_Activity (AID 651723)
- MLPCN PGC1a Modulators Measured in Cell-Based System Using Plate Reader - 2139-01_Activator_Dose_CherryPick_Activity_Set6 (AID 720513)

BRD-A30356435-001-05-1 ASN 05581825 AC1MKX5A MLS000677963 HMS2627F11 SMR000285989 PubChem CID : 3211116		0.75 (in 4 replicates)	-0.47	NA				Total number of assays tested in: 629. Active in the following assays: • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)