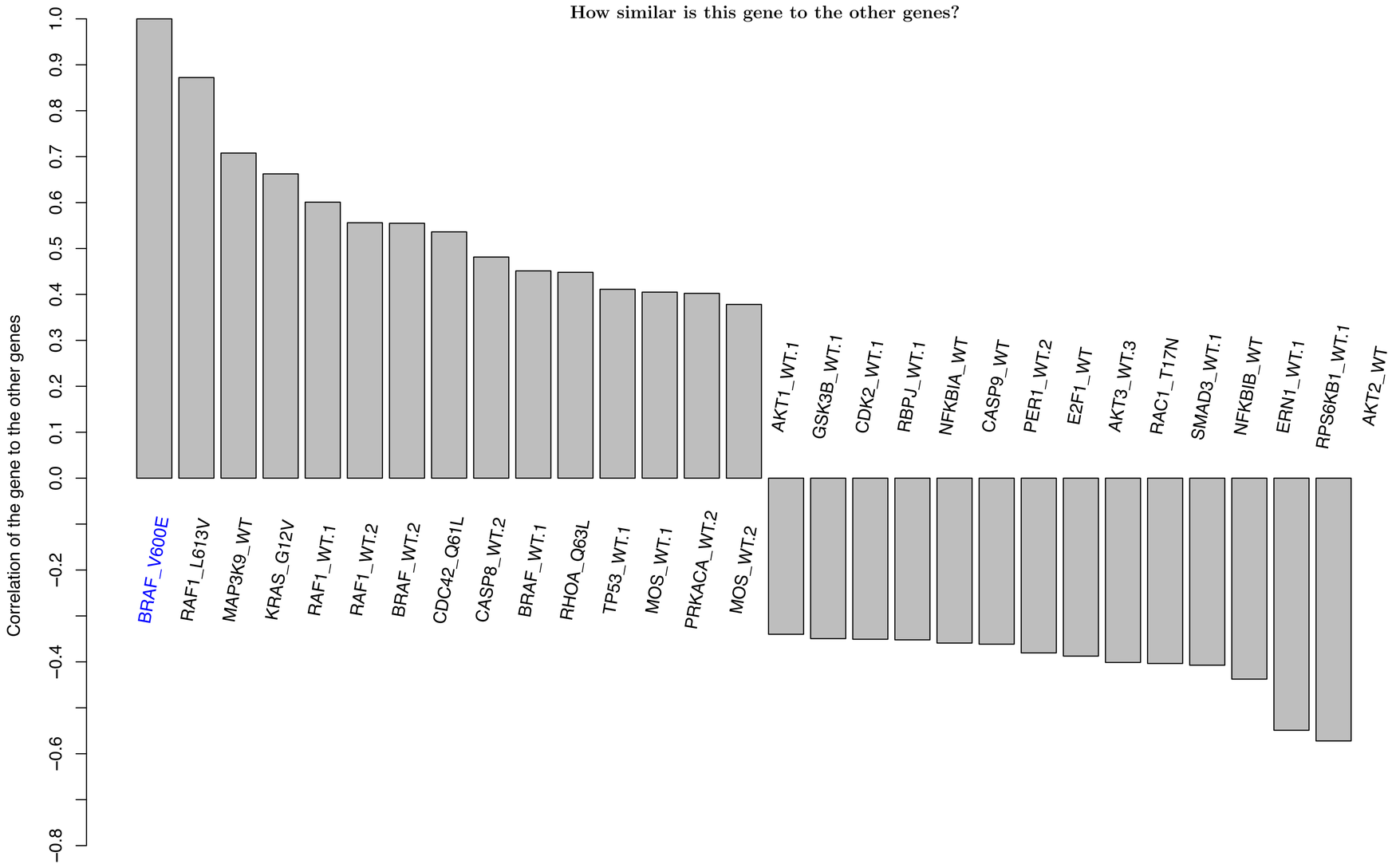
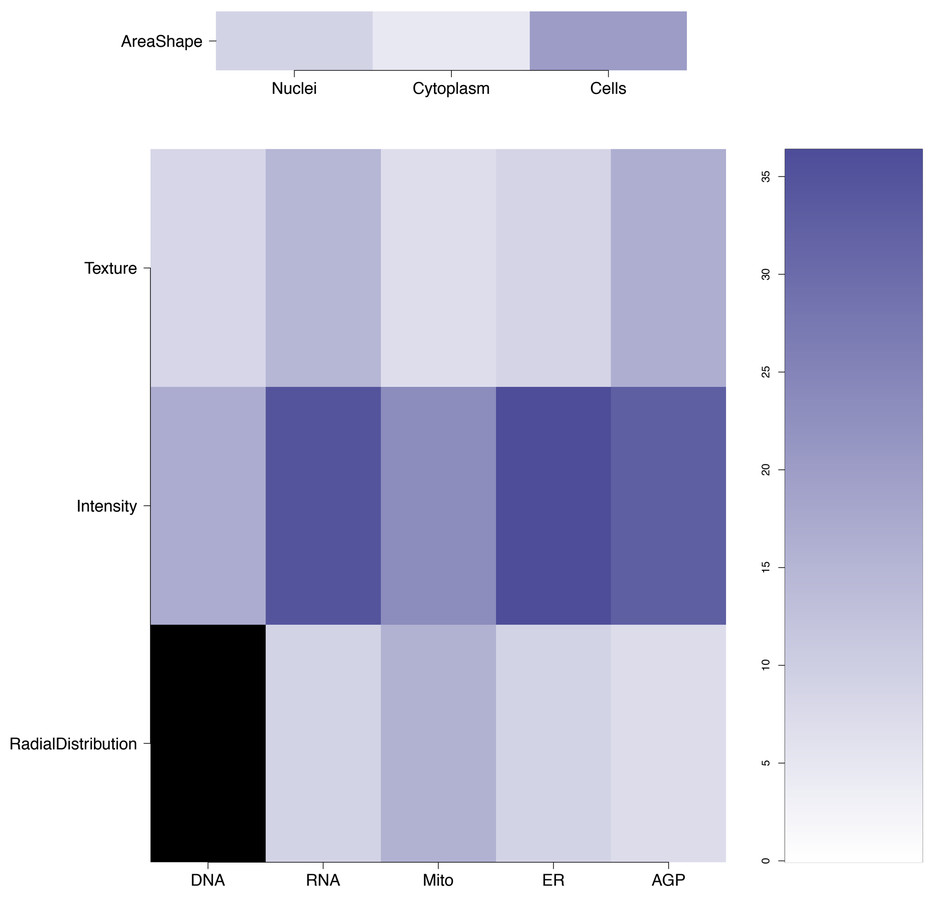
BRAF_V600E - in Canonical MAPK

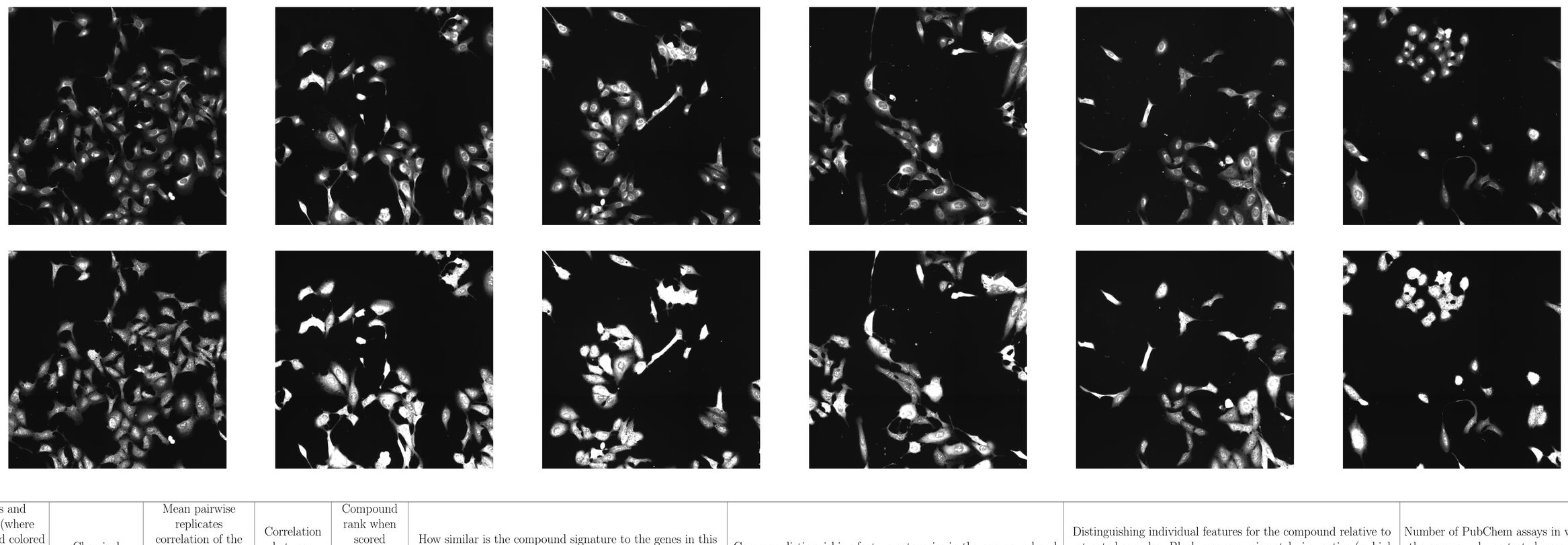
How similar is this gene to the other genes?



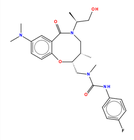
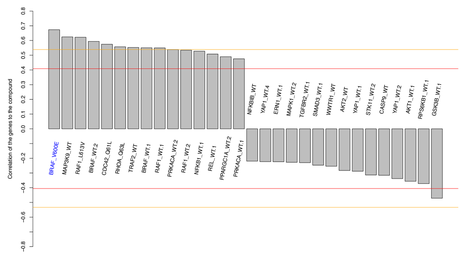
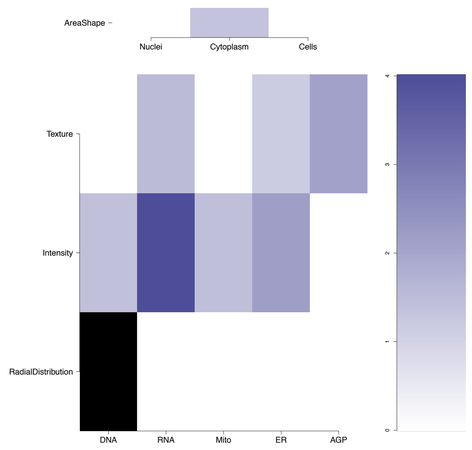
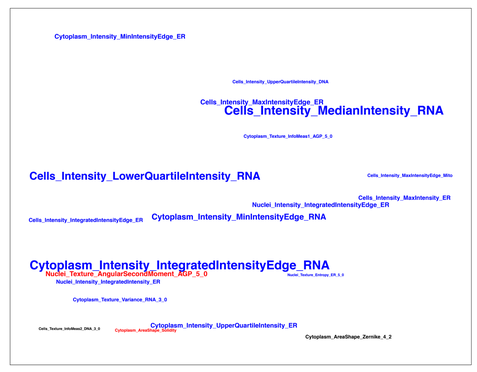
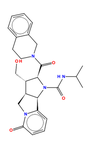
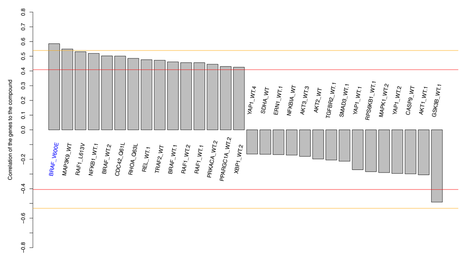
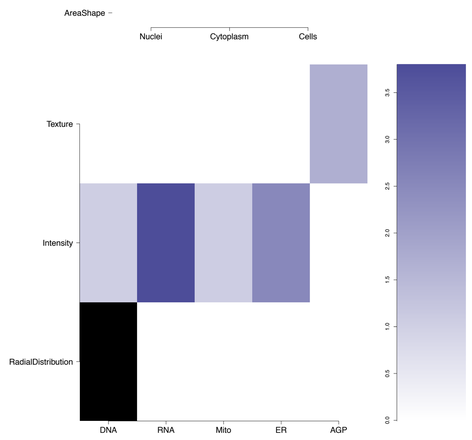
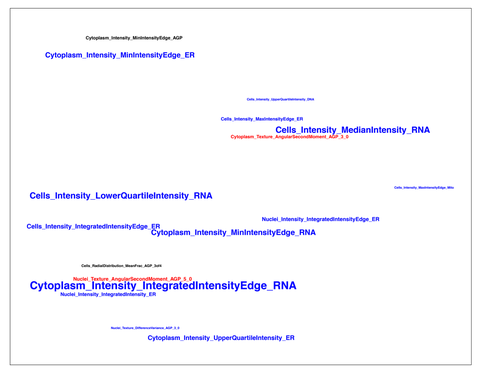
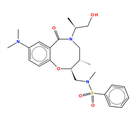
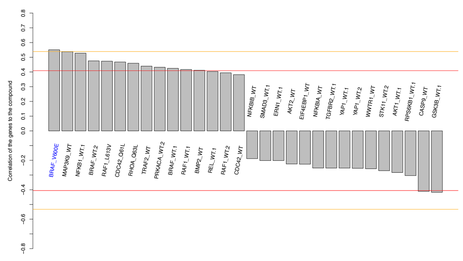
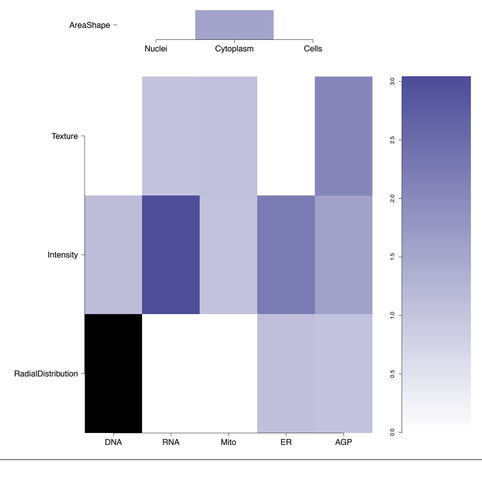
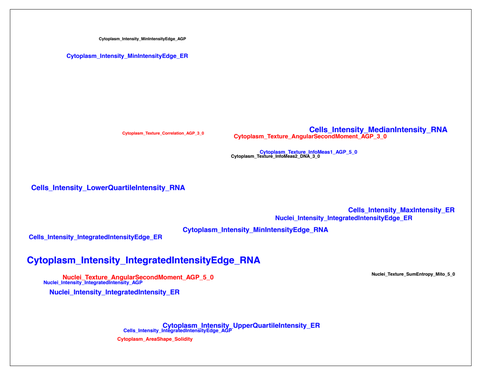
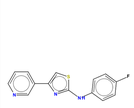
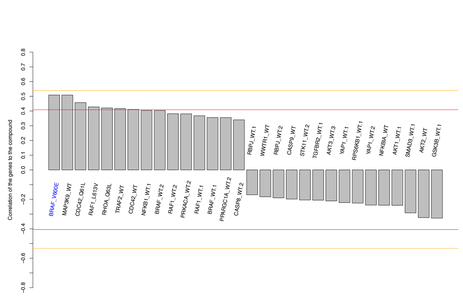
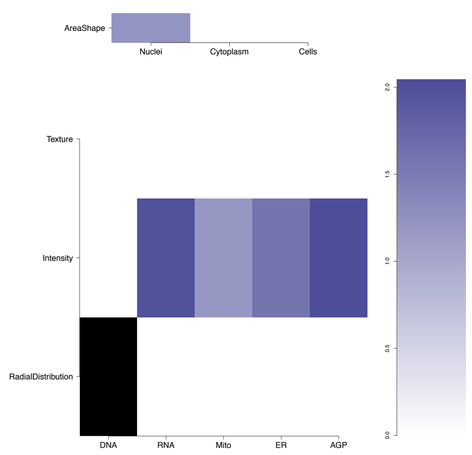
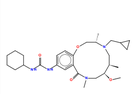
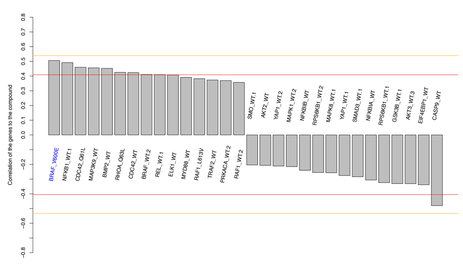
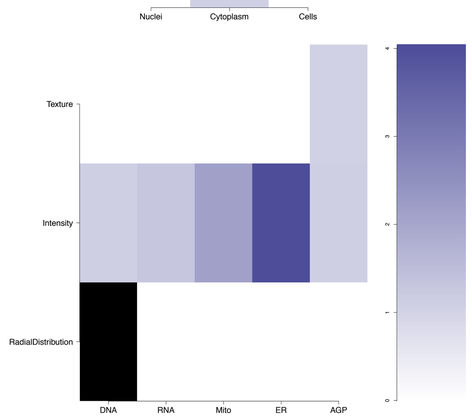
What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

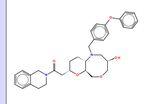
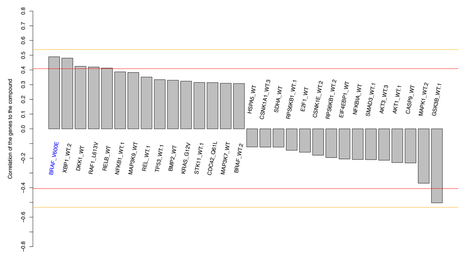
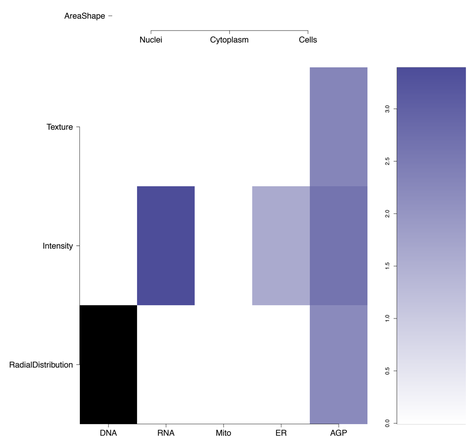
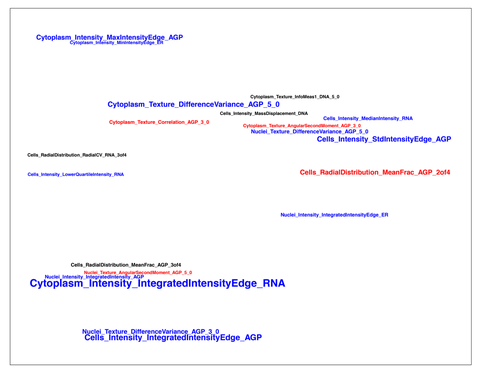
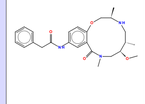
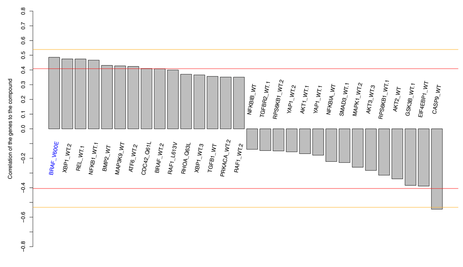
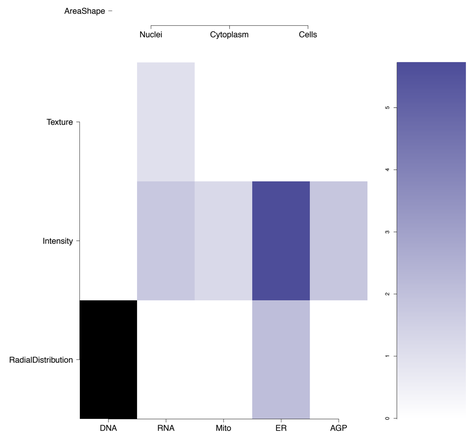
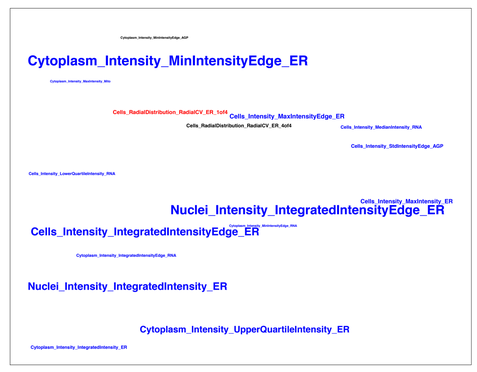
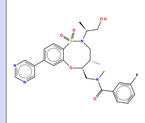
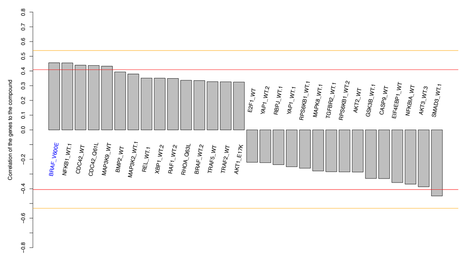
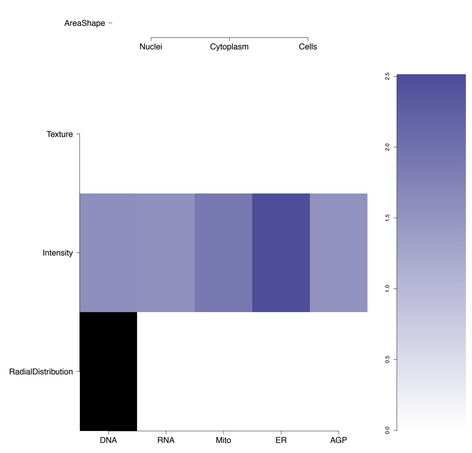
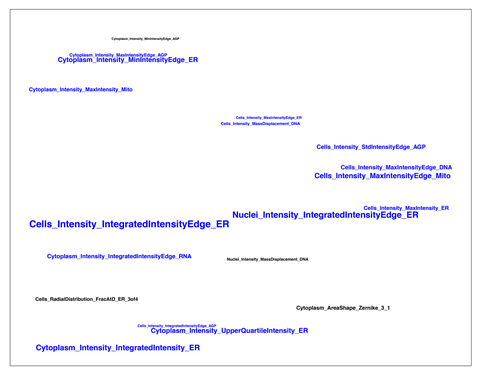
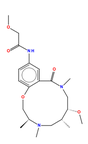
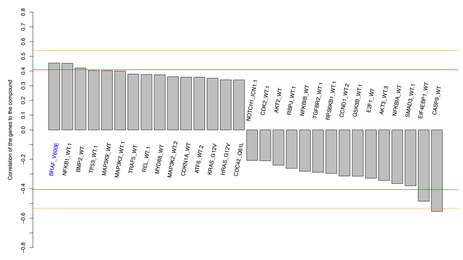
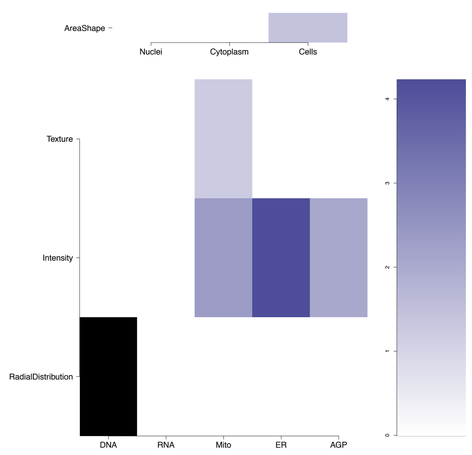
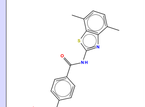
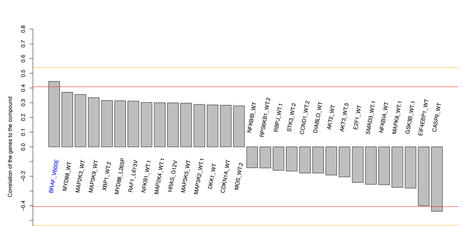
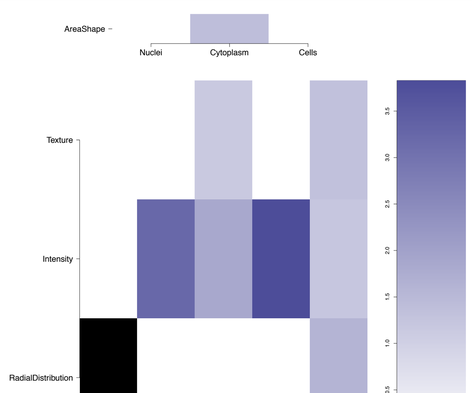


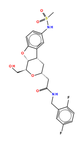
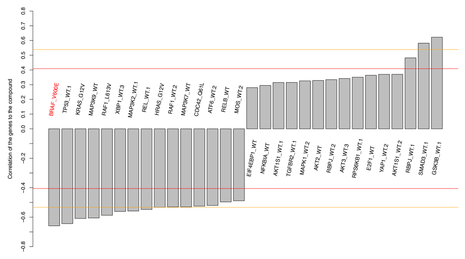
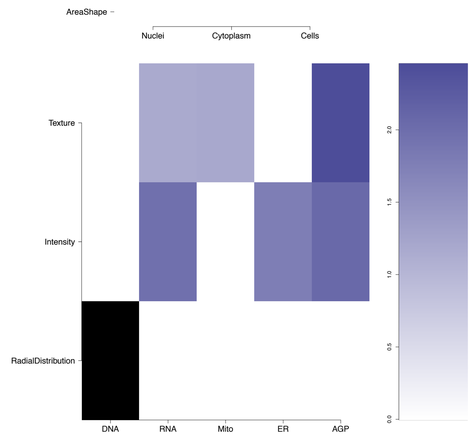
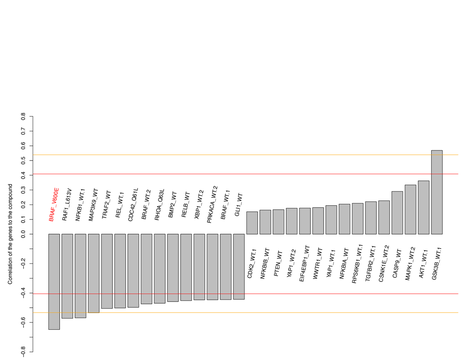
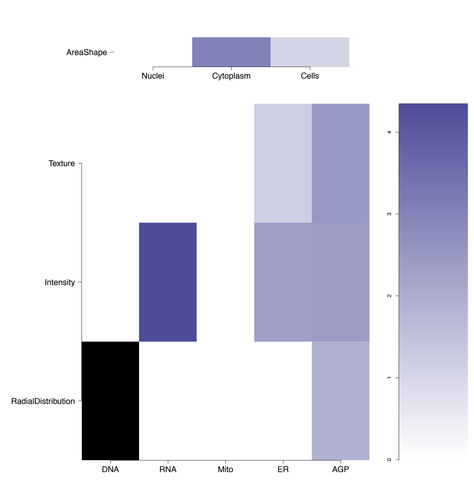
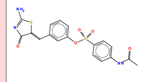
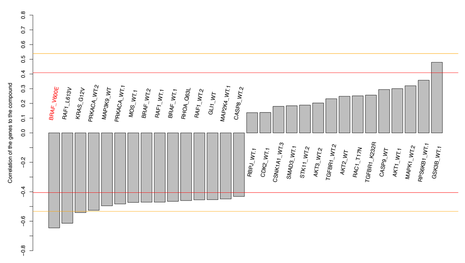
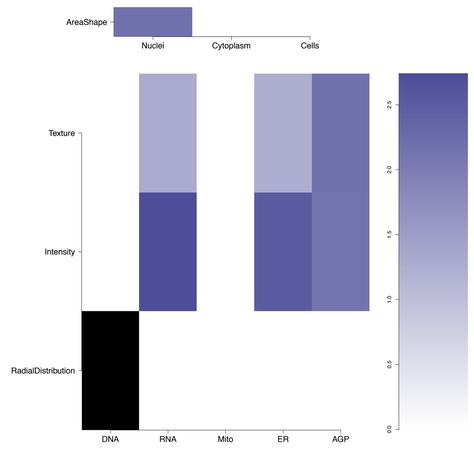
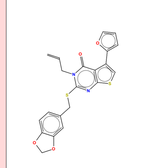
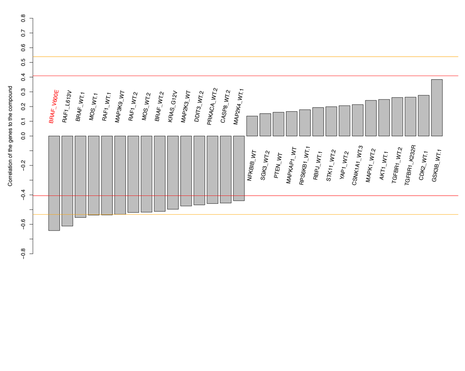
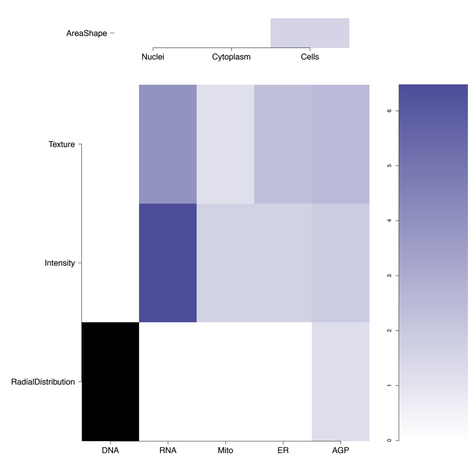
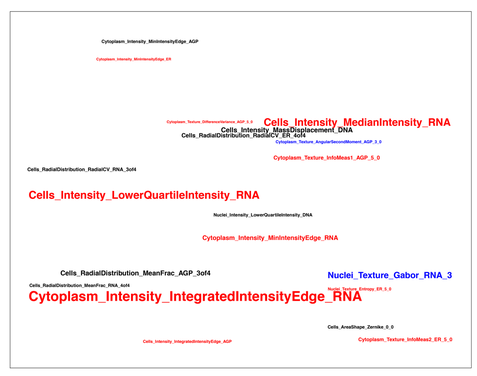
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.

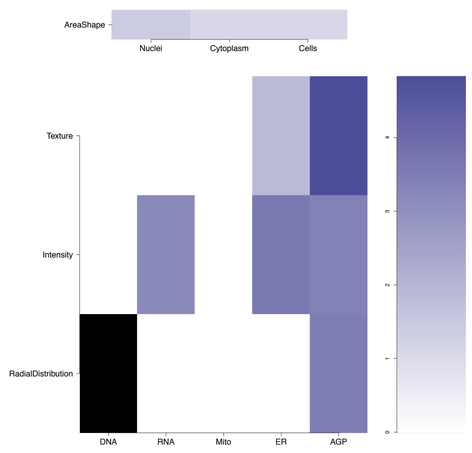
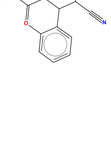
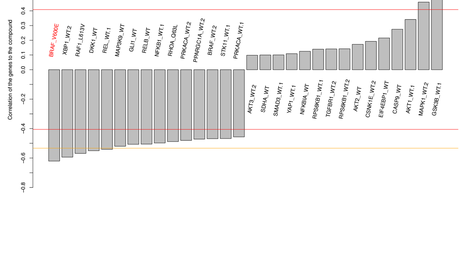
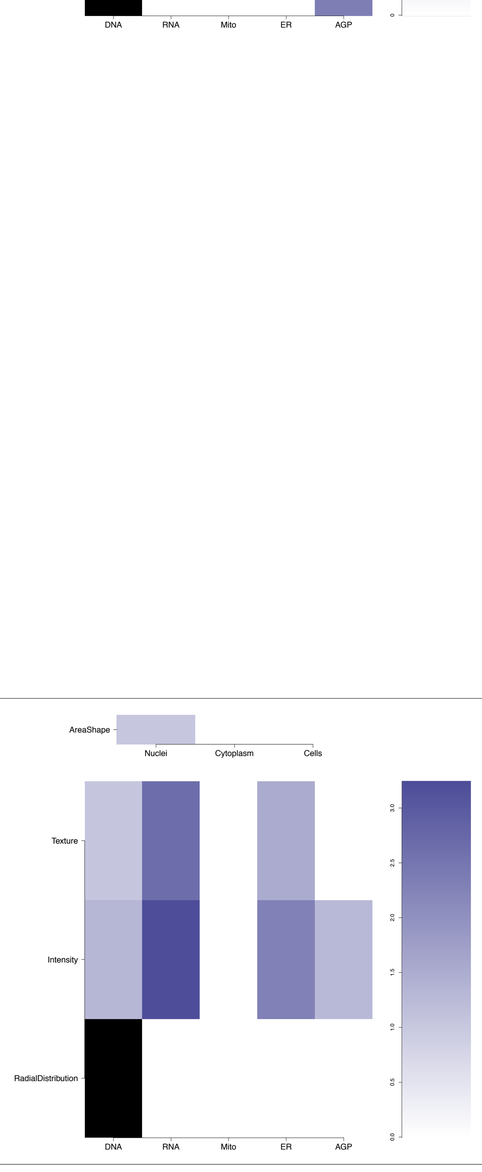
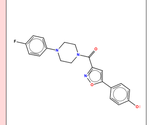
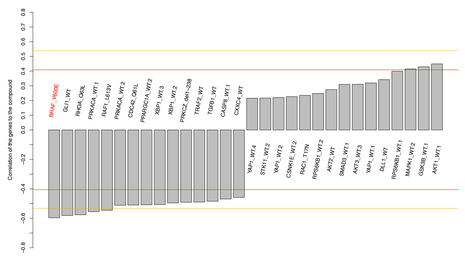
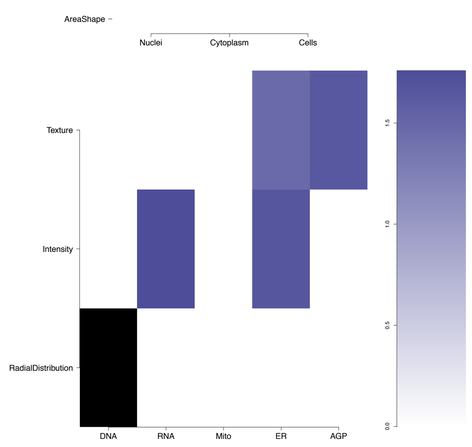
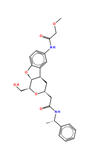
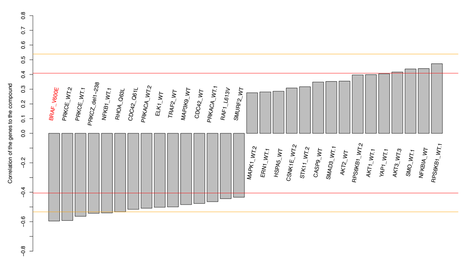
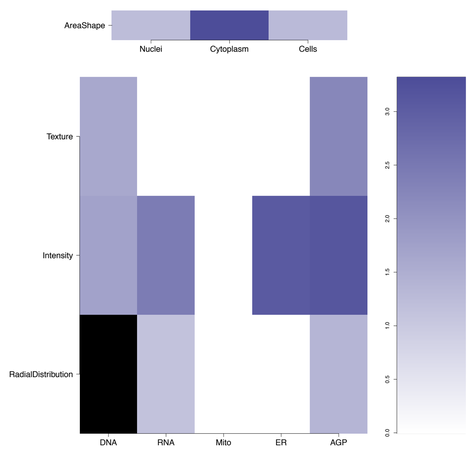
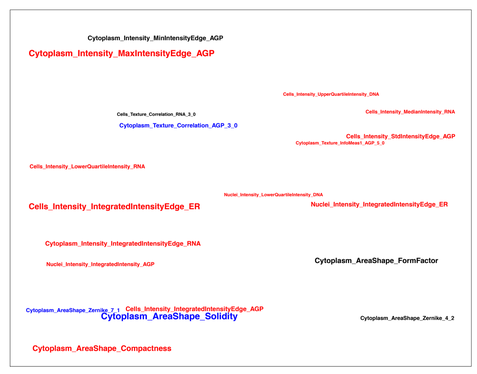


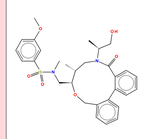
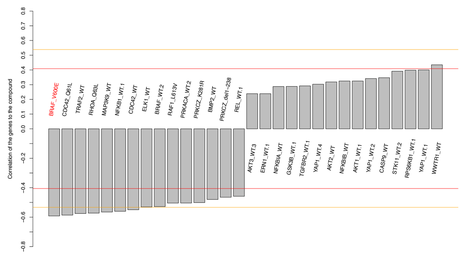
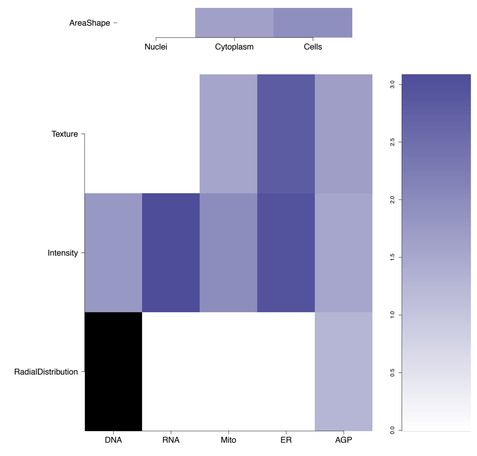
Compound IDs and common names (where available); blue/red colored box means the matching compound is positively/negatively correlated with the cluster	Chemical structure	Mean pairwise replicates correlation of the compound signature (95th DMSO replicate correlation is 0.52)	Correlation between compound 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-K88156935-001-01-8 PubChem CID : 44494858		0.65 (in 4 replicates)	0.67	0.697				Total number of assays tested in: 53.
BRD-K33341138-001-01-7 PubChem CID : 54660960		0.56 (in 4 replicates)	0.59	0.042				Total number of assays tested in: 28.
BRD-K21254338-001-01-4 PubChem CID : 44485892		0.59 (in 3 replicates)	0.55	0.697				Total number of assays tested in: 57.
BRD-K41649958-001-05-1 ST080940 ZINC00813406 AC1LLYAX MLS000707361 HMS2751I12 ZINC813406 CCG-120099 BAS 08770285 SMR000288826 PubChem CID : 1092463		0.55 (in 4 replicates)	0.51	NA				• Primary cell-based high throughput screening assay to measure STAT3 activation (AID 871) • Primary cell-based high throughput screening assay to measure STAT1 activation (AID 932) • High Throughput Screen to Identify Compounds that increase expression of NF-kB in Human Neuronal Cells - Primary Screen (AID 1239) • Primary cell-based high-throughput screening assay for potentiators or agonists of NPY-Y2 (AID 1359) • qHTS Assay for Enhancers of SMN2 Splice Variant Expression (AID 1458) • Confirmation cell-based high-throughput screening assay for potentiators or agonists of NPY-Y2 (AID 1539) • Fluorescence counterscreen assay for potentiators or agonists of NPY-Y2: Cell-based high-throughput screening assay to identify potentiators or agonists of NPY-Y1. (AID 1651) • Fluorescence-based counterscreen assay for potentiators of NPY-Y2: cell-based high-throughput screening assay to identify agonists of NPY-Y1. (AID 1702) • Fluorescence-based counterscreen assay for potentiators NPY-Y2: cell-based high-throughput screening assay to identify inhibitors of cyclic nucleotide gated ion channel (CNGC) activity. (AID 1703) • Fluorescence-based counterscreen assay for potentiators of NPY-Y2: cell-based high-throughput screening assay to identify agonists of NPY-Y2. (AID 1710) • 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) • 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) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • Luminescence-based cell-based primary high throughput screening assay to identify activators of the DAF-12 from the parasite H. contortus (hcDAF-12) (AID 652067) • Luminescence-based cell-based primary high throughput screening assay to identify activators of the DAF-12 from the parasite S. stercoralis (ssDAF-12) (AID 652126) • 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) • Luminescence-based cell-based high throughput confirmation assay to identify agonists of the DAF-12 from the parasite H. contortus (hcDAF-12) (AID 743032) • Luminescence-based cell-based high throughput confirmation assay to identify agonists of the DAF-12 from the parasite H. glycines (hgDAF-12). (AID 743050)
BRD-K95875837-001-01-3 PubChem CID : 54634049		0.53 (in 3 replicates)	0.51	0.697				Total number of assays tested in: 626. Active in the following assays:
BRD-K95875837-001-01-3 PubChem CID : 54634049		0.53 (in 3 replicates)	0.51	0.697				Total number of assays tested in: 37.

BRD-K07339740-001-01-3 PubChem CID : 54657692		0.54 (in 4 replicates)	0.49	0.697				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-K95722922-001-01-3 PubChem CID : 54631825		0.67 (in 4 replicates)	0.49	0.222				Total number of assays tested in: 31.
BRD-K10182289-001-01-9 PubChem CID : 54619149		0.54 (in 4 replicates)	0.46	0.697				Total number of assays tested in: 37.
BRD-K67448189-001-01-7 PubChem CID : 54632269		0.68 (in 4 replicates)	0.45	0.149				Total number of assays tested in: 35.
BRD-K66630097-001-04-6 F1813-0349 ZINC04292212 AC1OGQL4 HMS2245F22 ZINC4292212 PubChem CID : 7172915		0.66 (in 2 replicates)	0.44	NA				Total number of assays tested in: 648. Active in the following assays: • qHTS Assay for Promiscuous and Specific Inhibitors of Cruzain (without detergent) (AID 1476) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551) • 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) • uHTS identification of agonists of the CRF-binding protein and CRF-R2 receptor complex (AID 588473) • C. difficile toxins: HTS for inhibitors of TcdB glycohydrolase activity Measured in Biochemical System Using Plate Reader - 7074-01_Inhibitor_SinglePoint_HTS_Activity (AID 652162)
BRD-K59373532-001-05-2 T0504-1395 MLS001171537 ZINC5494430 SMR000591501 PubChem CID : 9613363		NA (in 1 replicates)	-0.67	NA				Total number of assays tested in: 491. Active in the following assays: • MLPCN Alpha-Synuclein 5'UTR - 5'-UTR binding - activators (AID 1814) • Aqueous Solubility from MLSMR Stock Solutions (AID 1996) • Fluorescence polarization-based primary biochemical high throughput screening assay to identify inhibitors of Protein Phosphatase Methylesterase 1 (PME-1). (AID 2130) • qHTS Assay for Modulators of miRNAs and/or Inhibitors of miR-21 (AID 2289) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • A qHTS for Small Molecule Inhibitors of Shiga Toxin (AID 2315) • HTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 8 (SENP8) (AID 2540) • uHTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 6 (SENP6) (AID 2599) • uHTS Luminescent assay for identification of inhibitors of Sentrin-specific protease 7 (SENP7) (AID 434973) • qHTS Assay for Rab9 Promoter Activators (AID 485297) • qHTS Assay for NPC1 Promoter Activators (AID 485313) • Single concentration confirmation of uHTS for inhibitors of Sentrin-specific protease 8 (SENP8) using a Luminescent assay (AID 488912) • Single concentration confirmation of uHTS for inhibitors of Sentrin-specific protease 6 (SENP6) using a Luminescent assay (AID 488915) • Single concentration confirmation of uHTS for inhibitors of Sentrin-specific protease 7 (SENP7) using a Luminescent assay (AID 488917) • Single concentration confirmation of inhibitors of Sentrin-specific proteases (SENPs) using a Caspase-3 Selectivity assay (AID 488918) • Single concentration confirmation of inhibitors of Sentrin-specific proteases (SENPs) using a Luminescent Interference Counterscreen assay (AID 488919) • qHTS screen for small molecules that induce genotoxicity in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504466) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342)

BRD-K22387508-001-01-5 PubChem CID : 54646033		NA (in 1 replicates)	-0.66	0.830				Total number of assays tested in: 41.
BRD-K04190958-001-05-1 MLS000582256 STK201550 SMR000200794 AC1NX0RQ BDBM53783 ZINC4739815 PubChem CID : 5740612		NA (in 1 replicates)	-0.65	NA				Total number of assays tested in: 682. Active in the following assays: • HTS to identify specific small molecule inhibitors of Ras and Ras-related GTPases specifically Ras wildtype (AID 759) • HTS to identify specific small molecule inhibitors of Ras and Ras-related GTPases specifically Rab2 wildtype (AID 760) • HTS to identify specific small molecule inhibitors of Ras and Ras-related GTPases specifically Cdc42 wildtype (AID 761) • qHTS Assay for Inhibitors of 15-hLO-2 (15-human lipoxygenase 2) (AID 881) • uHTS identification of compounds inhibiting the binding between the RUNX1 Runt domain and CBFb-SMMHC via a fluorescence resonance energy transfer (FRET) assay. (AID 1434) • Inhibitors of Plasmodium falciparum M1- Family Alanyl Aminopeptidase (M1AAP) (AID 1445) • QFRET-based counterscreen for PFM18AAP inhibitors: biochemical high throughput screening assay to identify inhibitors of the Cathepsin L proteinase (CTSL1). (AID 1906) • 384-well Z-Lyte format Hck-Nef inhibitor HTS run at the PMLSC (AID 463187) • 384-well Z-Lyte format Hck-Nef inhibitor HTS: Confirmation Assays (AID 463188) • qHTS for Inhibitors of Polymerase Eta (AID 588591) • Luminescence-based cell-based primary high throughput screening assay to identify agonists of the mouse 5-hydroxytryptamine (serotonin) receptor 2A (HTR2A) (AID 624169) • Counterscreen for agonists of the mouse 5-hydroxytryptamine (serotonin) receptor 2A (HTR2A): Luminescence-based cell-based high throughput screening assay to identify agonists of the mu 1 opioid receptor (OPRM1) (AID 624380) • Fluorescence-based biochemical primary high throughput screening assay to identify molecules that bind r(CAG) RNA repeats (AID 651821) • MLPCN SirT-5 Measured in Biochemical System Using Imaging - 7044-01_Inhibitor_SinglePoint_HTS_Activity_Set5 (AID 652115) • qHTS for Inhibitors of Polymerase Eta: Confirmatory Assay for Cherry-picked Compounds (AID 720502)
BRD-K81034231-001-05-6 AC1LWXT7 MLS000680873 HMS2660P15 STK899460 ZINC15837814 SMR000269537 ST50582639 PubChem CID : 1788133		NA (in 1 replicates)	-0.65	NA				Total number of assays tested in: 625. Active in the following assays: • uHTS HTRF assay for identification of inhibitors of SUMOylation (AID 2006) • Activator for delta FosB/delta FosB homodimer Measured in Biochemical System Using Plate Reader - 2072-01_Activator_SinglePoint_HTS_Activity (AID 493131) • qHTS Assay for Inhibitors of JMJD2A-Tudor Domain (AID 504339) • Inhibitors of the vitamin D receptor (VDR): qHTS (AID 504847) • 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) • qHTS for Inhibitors of Glutaminase (GLS) (AID 624170) • 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) • Small Molecule Inhibitors of FGF22-Mediated Excitatory Synaptogenesis and Epilepsy Measured in Biochemical System Using RT-PCR - 7012-01_Inhibitor_SinglePoint_HTS_Activity (AID 651658) • 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 WRN Helicase (AID 651768) • qHTS for Inhibitors of PLK1-PDB (polo-like kinase 1 - polo-box domain): Primary Screen (AID 720504)
BRD-K65727917-001-05-6 F3394-0700 SMR000143330 MLS000536292 AC1LPIUX MLS002546146 HMS2409E04 ZINC1109468 ZINC01109468 T5891656 PubChem CID : 1288186		NA (in 1 replicates)	-0.64	NA				Total number of assays tested in: 682. Active in the following assays: • Cytochrome panel assay with activity outcomes (AID 1851) • Primary cell-based high-throughput screening assay for identification of compounds that inhibit KCNQ2 potassium channels (AID 2156) • uHTS identification of DNMT1 inhibitors in a Fluorescent Molecular Beacon assay (AID 588458) • 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 small molecule inhibitors of Csn-mediated Deneddylation of Cullin-Ring Ligases, vis a fluorescence polarization assay (AID 651999) • qHTS for Inhibitors of phosphatidylinositol 5-phosphate 4-kinase (PI5P4K) (AID 652105) • Development of Small Molecule Probes of the Histone Methyltransferase, NSD2 Measured in Biochemical System Using Plate Reader - 7053-01_Inhibitor_SinglePoint_HTS_Activity_Set2 (AID 743445)

BRD-A76985501-001-06-9 AC1MWF4V MLS000589513 HMS2548J24 STK530431 SMR000212888 PubChem CID : 3723106		NA (in 1 replicates)	-0.62	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 coactivator protein, abhydrolase domain containing 5 (ABHD5) with perilipin-5 (MLDP; PLIN5) (AID 602281) • uHTS identification of HIF-2a Inhibitors in a luminesence 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-K84625203-001-01-1 PubChem CID : 54646078		NA (in 1 replicates)	-0.60	0.168				Total number of assays tested in: 40.
BRD-K08252773-001-06-6 ST50677751 MLS000950204 HMS2244P08 ZINC6785648 ZINC06785648 SMR000621580 PubChem CID : 17252791		NA (in 1 replicates)	-0.60	NA				Total number of assays tested in: 495. Active in the following assays: • Luminescence Cell-Based Primary HTS to Identify Inhibitors of Cancer Stem Cells (AID 2717) • 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 yeast via a luminescent assay (AID 463212) • 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) • HTS-Luminescent assay for inhibitors of ALR by detection of hydrogen peroxide production Measured in Biochemical System Using Plate Reader - 2036-02_Inhibitor_SinglePoint_HTS (AID 485317) • Luminescence-based cell-based primary high throughput screening assay to identify biased ligands of the melanocortin 4 receptor (MC4R): agonists of MC4R (AID 540308) • 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-K11468724-001-01-4 PubChem CID : 54646064		NA (in 1 replicates)	-0.60	0.089				Total number of assays tested in: 38.

BRD-K59893964-001-01-5 PubChem CID : 56835505		0.54 (in 3 replicates)	-0.59	0.928				Total number of assays tested in: 34.