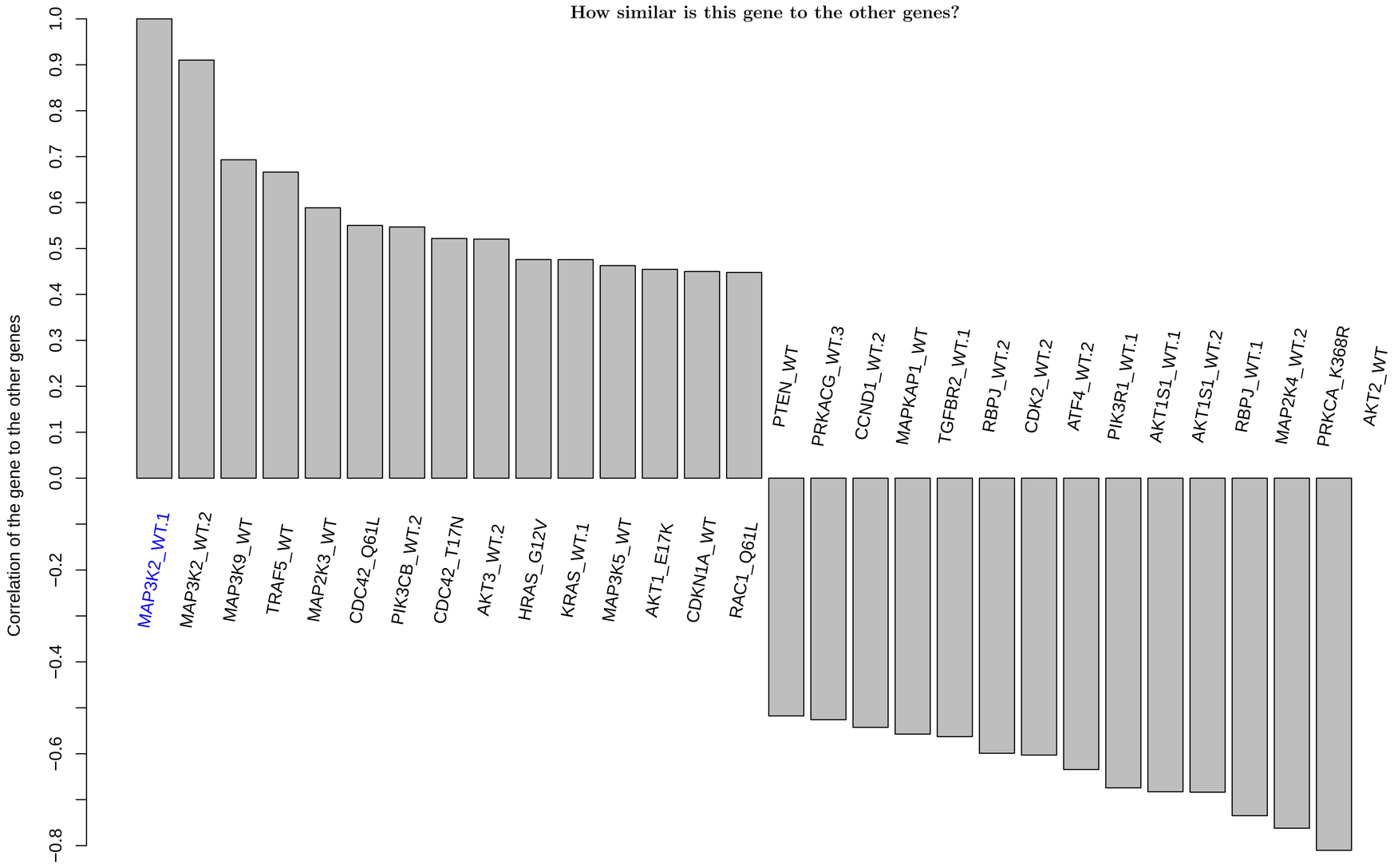
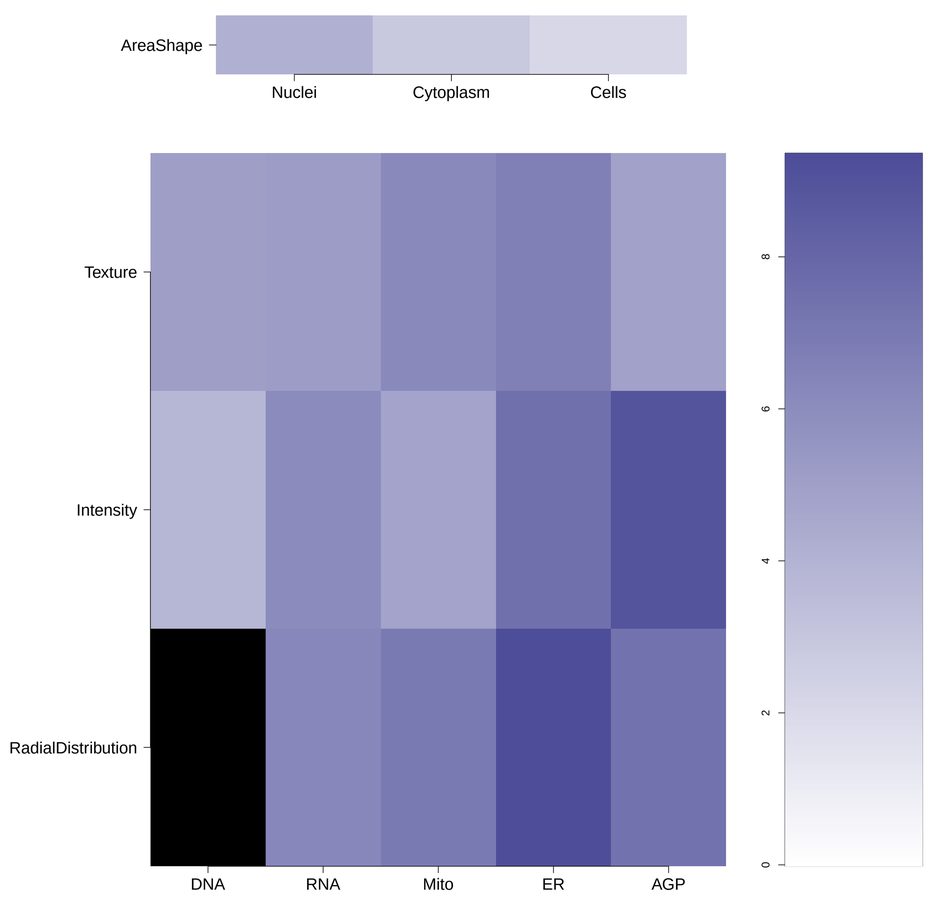
MAP3K2_WT.1 - in Canonical MAPK

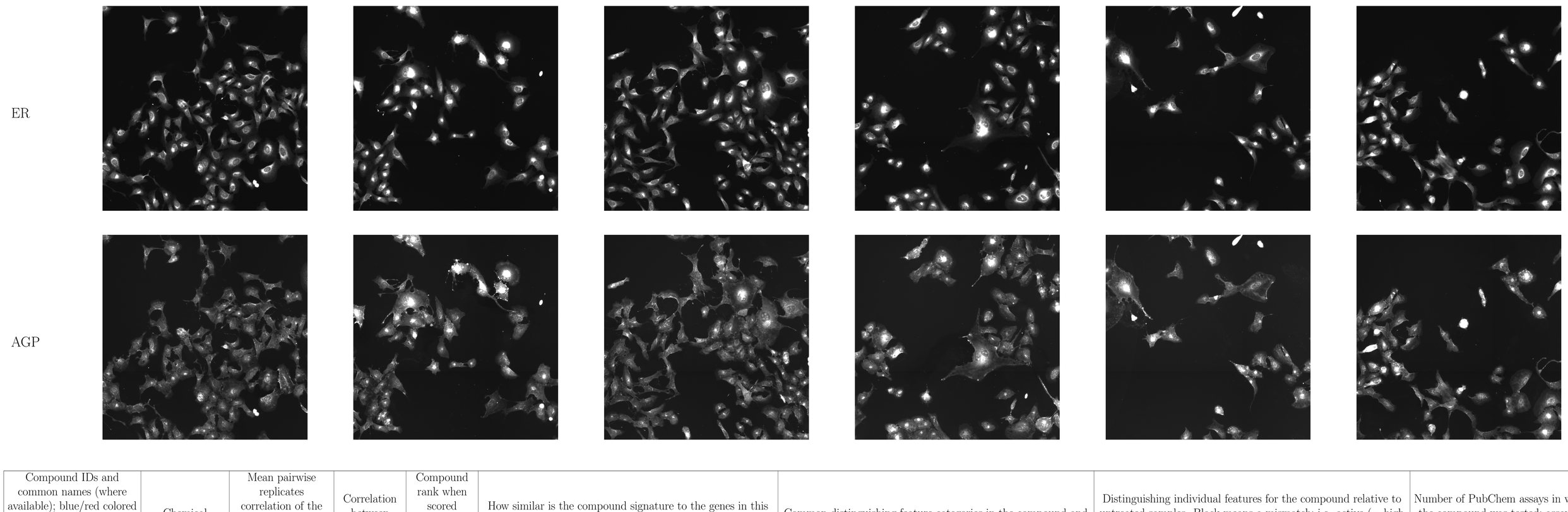
How similar is this gene to the other genes?



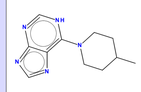
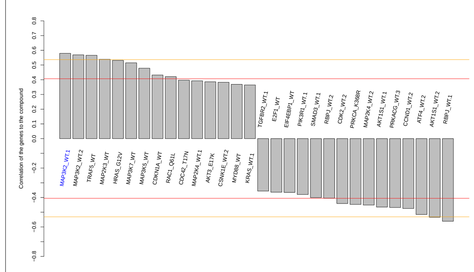
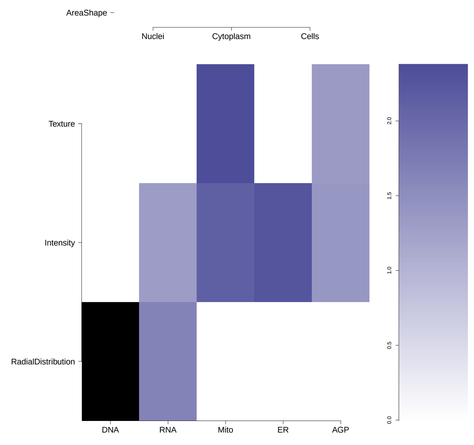
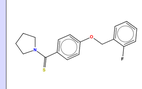
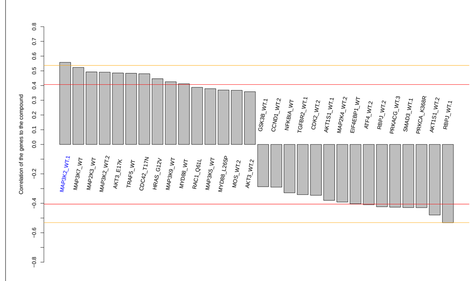
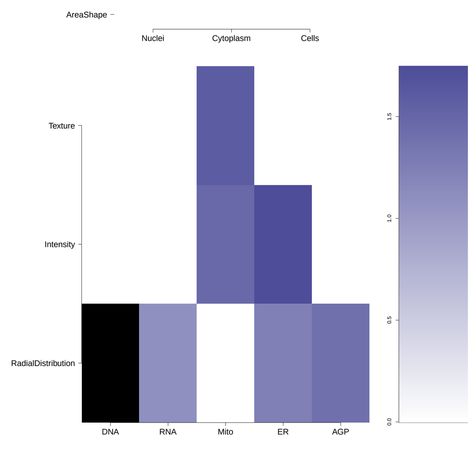
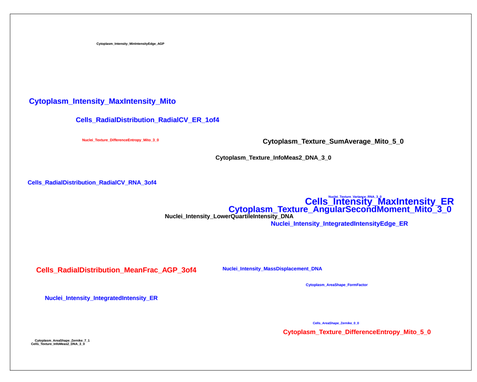
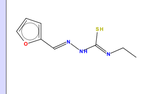
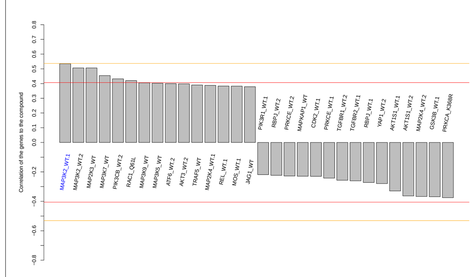
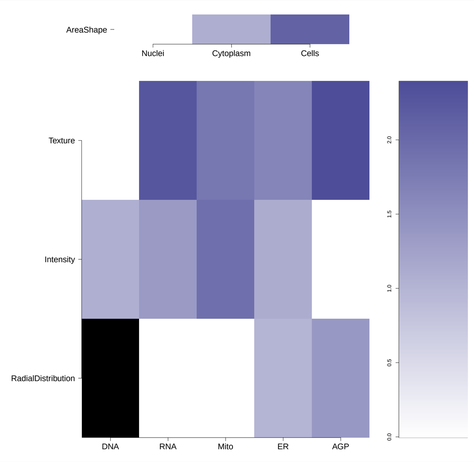
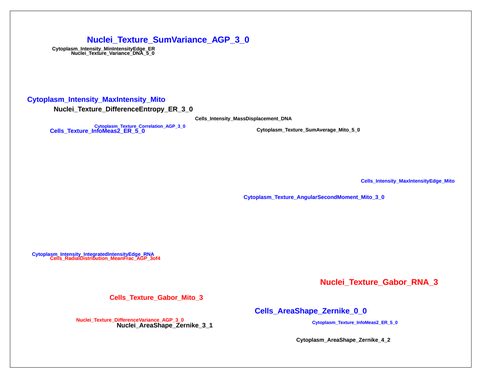
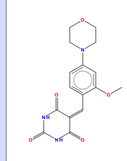
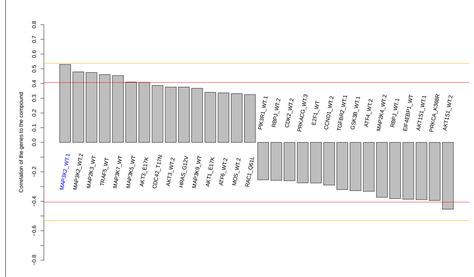
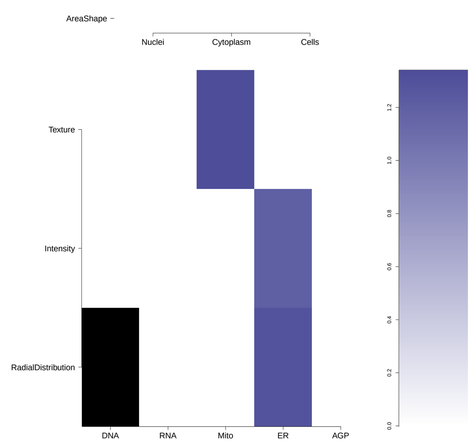
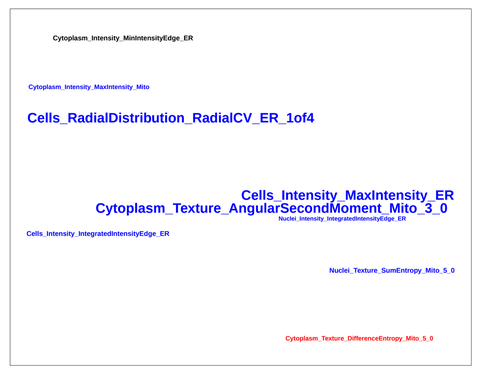
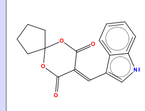
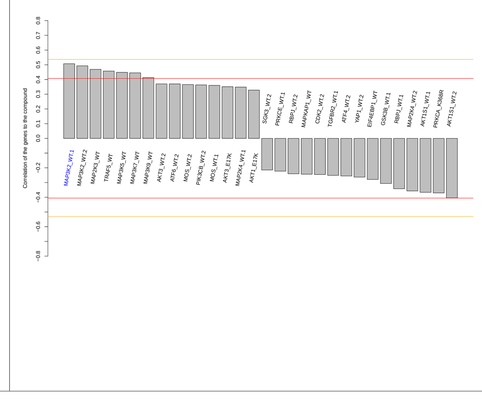
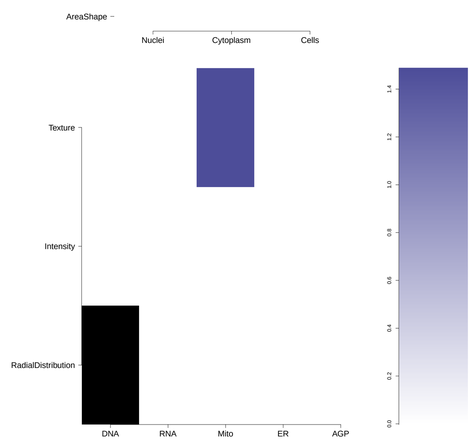
What groups of morphological features are distinguishing in the cluster relative to the untreated samples? (maximum of absolute m-score for the features belonging to the same category; m-score defined as median of a feature z-score across genes in the cluster) Black means no feature is available in the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

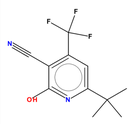
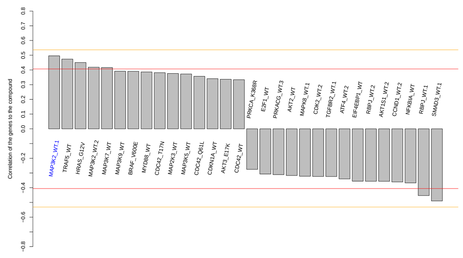
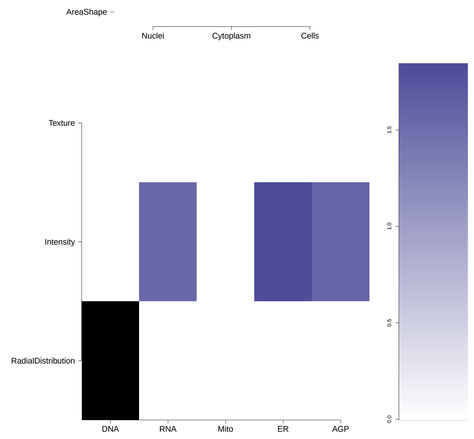
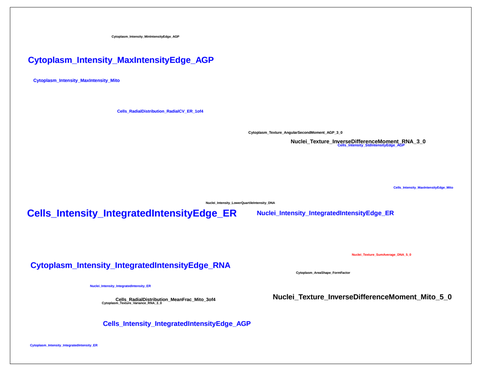
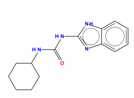
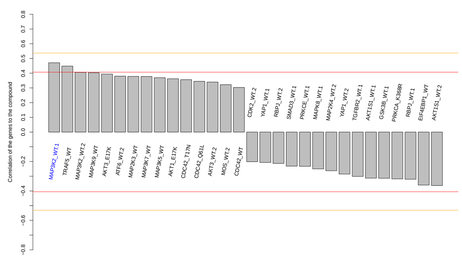
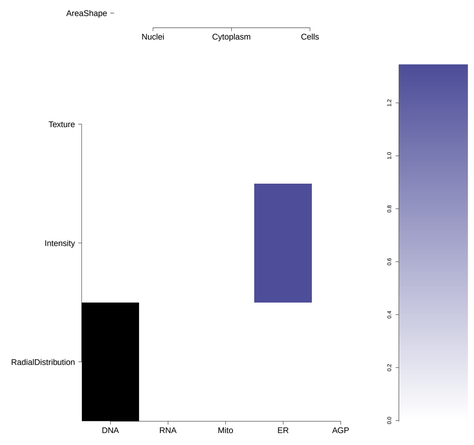
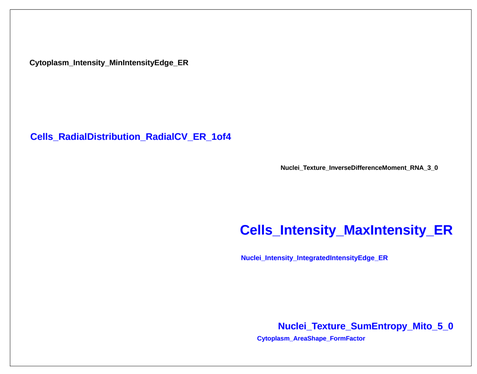
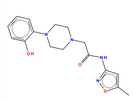
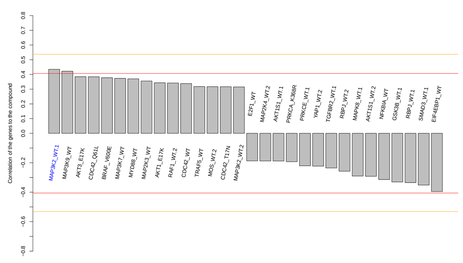
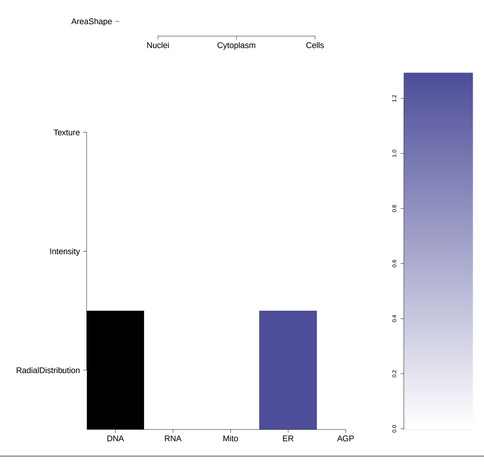
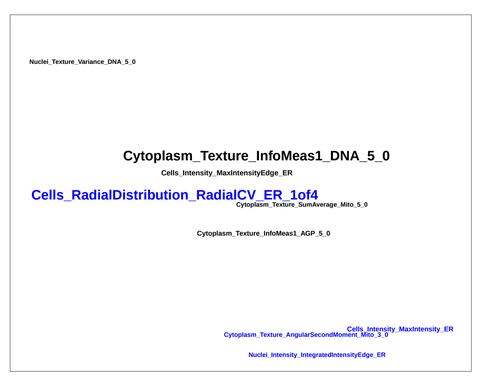
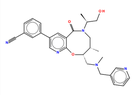
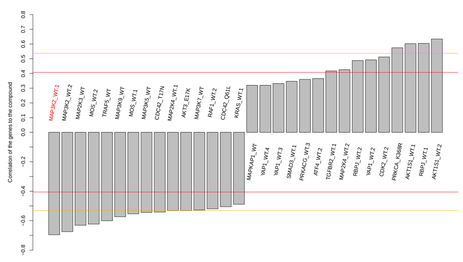
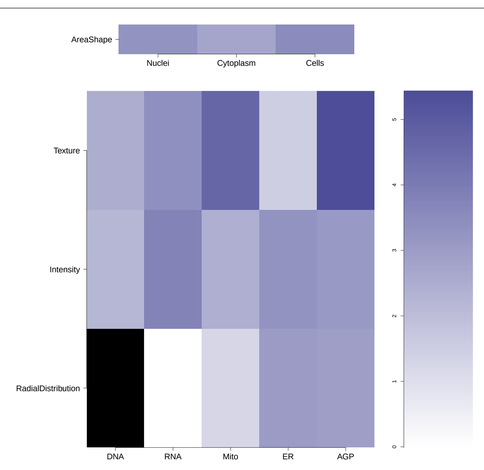
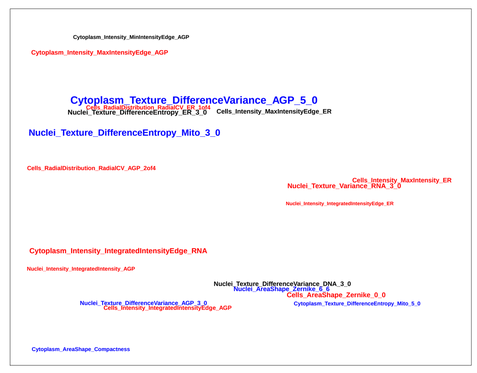


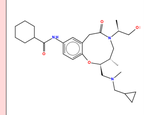
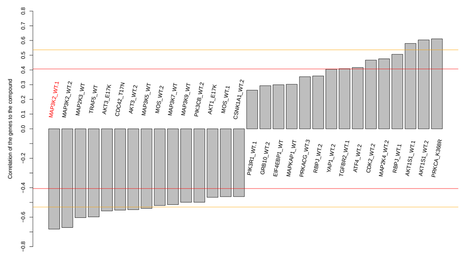
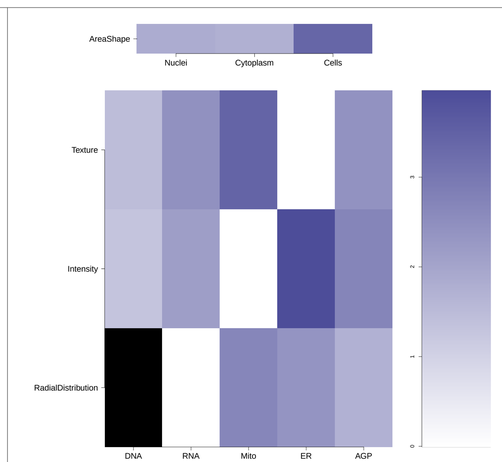
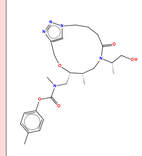
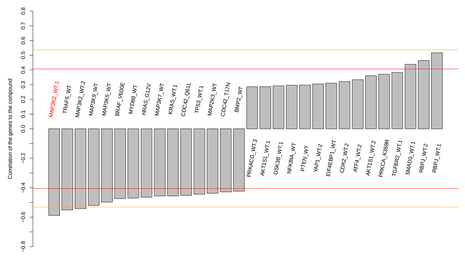
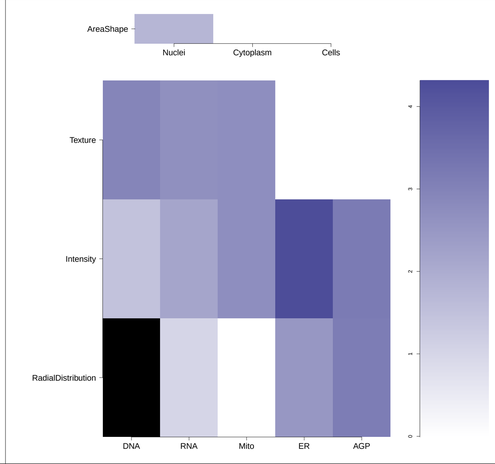
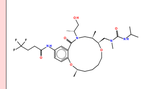
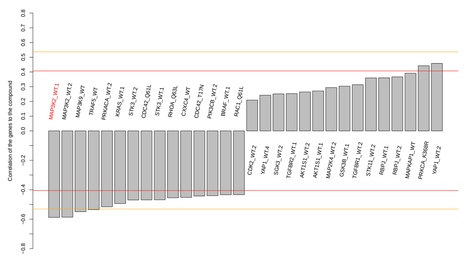
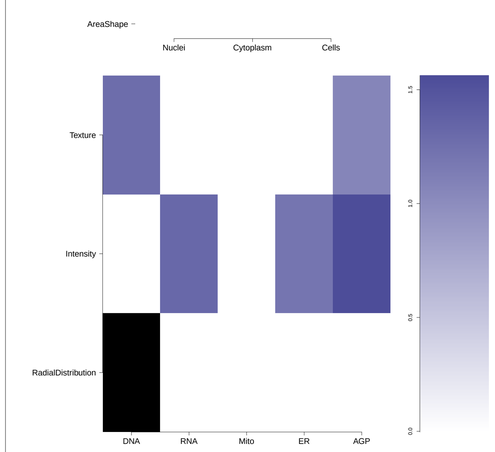
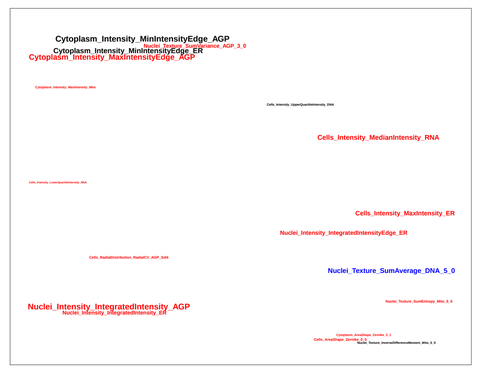
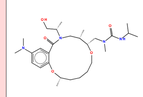
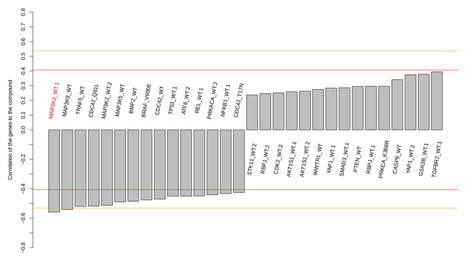
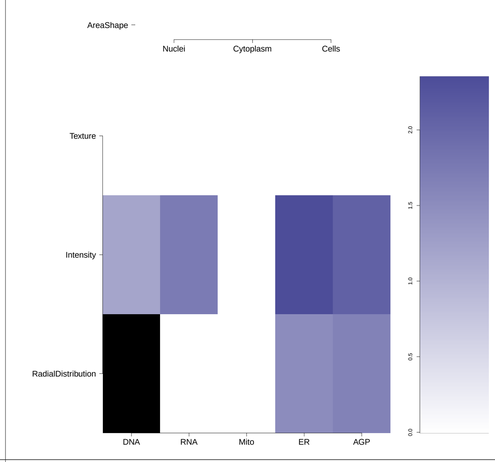
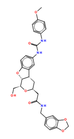
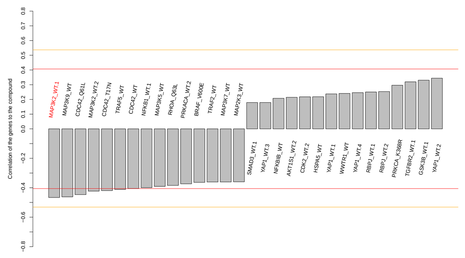
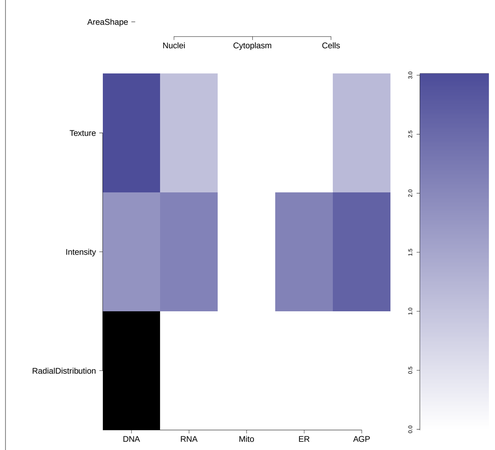
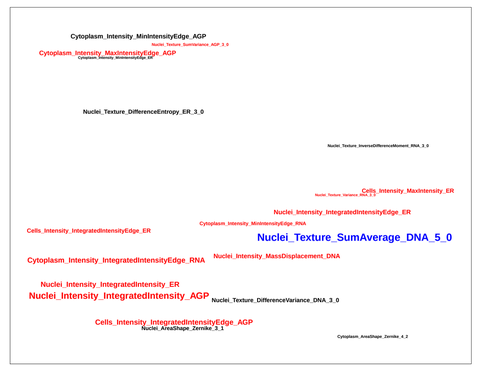
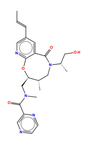
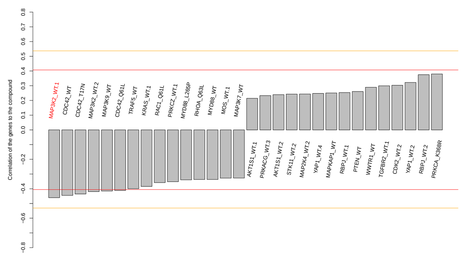
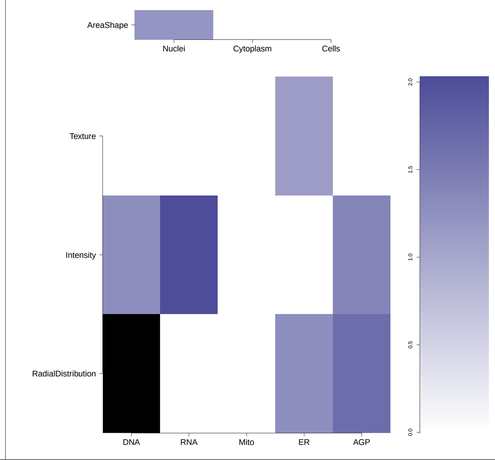
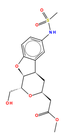
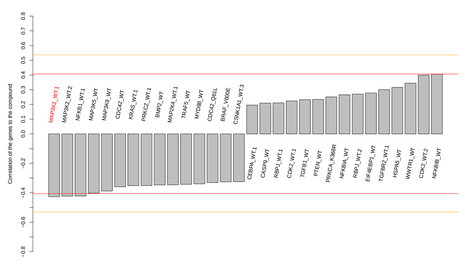
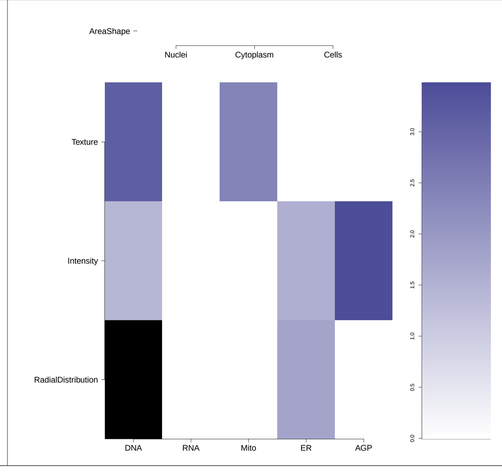
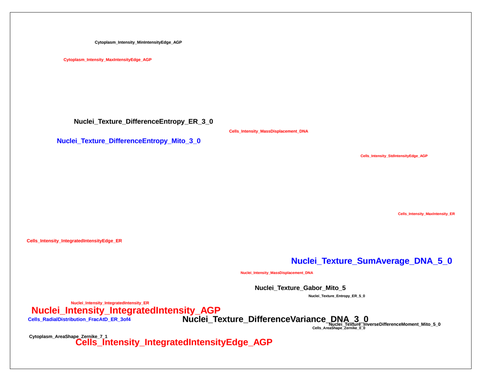
Which individual morphological features are distinguishing in the gene relative to the untreated samples? Blue/Red means the feature has a positive/negative z-score. Size is proportional to the z-score value.



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-K42453497-001-05-5 SMR000126834 MLS000529835 STK617505 AC1LFNQU CHEMBL511499 BDBM41026 HMS2253C09 ZINC8623072 CCG-26899 ZINC08623072 EU-0022202 ST50032201 T6031538 PubChem CID : 756692		0.53 (in 4 replicates)	0.58	0.710				Total number of assays tested in: 711. Active in the following assays: • Fluorescence polarization assay for PLK1 inhibitors (AID 619) • LYP Activators-an Autoimmunity Target - Primary screen (AID 697) • Primary biochemical high-throughput screening assay for inhibitors of Focal Adhesion Kinase (FAK) (AID 727) • Fluorescence polarization assay for PLK1 confirmation assay (AID 744) • Fluorescence Polarization assay for Plk1: IC50 Dose Response Assay (AID 785) • Confirmation biochemical assay for inhibitors of Focal Adhesion Kinase (FAK) (AID 794) • Dose-response biochemical assay for inhibitors of Focal Adhesion Kinase (FAK) (AID 810) • TR-FRET counterscreen for FAK inhibitors: dose-response biochemical high throughput screening assay to identify inhibitors of Proline-rich tyrosine kinase 2 (Pyk2) (AID 1641) • Dyrk1 A HTS Measured in Biochemical System Using Plate Reader - 2124-01_Inhibitor_SinglePoint_HTS_Activity (AID 504441) • Luminescence-based cell-based primary high throughput screening assay to identify agonists of the mouse 5-hydroxytryptamine (serotonin) receptor 2A (HTR2A) (AID 624169)
BRD-K21786986-001-05-1 MLS001163353 SMR000497279 ZINC00306713 AC1LFBC9 Ambcb6914459 BDBM76621 HMS2823C13 ZINC306713 STL420213 PubChem CID : 800252		0.68 (in 4 replicates)	0.56	0.176				Total number of assays tested in: 504. Active in the following assays: • 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) • 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) • A yeast HTS for caloric restriction mimetics that inhibit age-related superoxide (AID 2690) • Dose Response confirmation of inhibitors of Sentrin-specific proteases (SENPs) using a Caspase-3 Selectivity assay (AID 488901) • Dose Response confirmation of uHTS for inhibitors of Sentrin-specific protease 8 (SENP8) using a Luminescent assay (AID 488903) • Dose Response confirmation of uHTS for inhibitors of Sentrin-specific protease 7 (SENP7) using a Luminescent assay (AID 488904) • Single concentration confirmation of uHTS for inhibitors of Sentrin-specific protease 7 (SENP7) using a Luminescent assay (AID 488917) • Dose Response confirmation of uHTS for inhibitors of Sentrin-specific protease 6 (SENP6) using a Luminescent assay (AID 488921) • SAR Analysis of small molecule inhibitors of Sentrin-specific proteases (SENPs) using a Caspase-3 Selectivity assay (AID 504488) • SAR Analysis of small molecule inhibitors of Sentrin-specific protease 6 (SENP6) using a Luminescent assay (AID 504492) • SAR Analysis of small molecule inhibitors of Sentrin-specific protease 7 (SENP7) using a Luminescent assay (AID 504497) • SAR Analysis of small molecule inhibitors of Sentrin-specific protease 8 (SENP8) using a Luminescent assay (AID 504501) • MITF Measured in Cell-Based System Using Plate Reader - 2084-01_Activator_Dose_CherryPick_Activity (AID 540258) • MITF Act Counter Assay: HeLa CTG Assay Measured in Cell-Based System Using Plate Reader - 2084-08_Activator_Dose_CherryPick_Activity (AID 540259) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • qHTS Assay to Identify Small Molecule Activators of BRCA1 Expression (AID 624202) • MITF Measured in Cell-Based System Using Plate Reader - 2084-01_Activator_Dose_DryPowder_Activity (AID 651775)
BRD-K19000937-001-05-1 AC1OBXBL SMR000150714 MLS000571059 ZINC5548575 ZINC05548575 EX-16-369 T0515-9252 PubChem CID : 6905222		0.58 (in 3 replicates)	0.53	NA				Total number of assays tested in: 673. Active in the following assays: • VP16 counterscreen qHTS for inhibitors of ROR gamma transcriptional activity (AID 2546) • qHTS for inhibitors of ROR gamma transcriptional activity (AID 2551)
BRD-K54658376-001-05-0 MLS000575341 AC1M4YTA Ambcb6884374 ZINC2994573 STL370139 SMR000196575 PubChem CID : 2291919		0.57 (in 4 replicates)	0.53	NA				Total number of assays tested in: 644. Active in the following assays: • qHTS Assay for Inhibitors of HPGD (15-Hydroxyprostaglandin Dehydrogenase) (AID 894) • Multiplexed high-throughput screen for small molecule regulators of Bcl-2 family protein interactions, specifically Bim-Mcl-1 (AID 1009) • qHTS Assay for Inhibitors of Aldehyde Dehydrogenase 1 (ALDH1A1) (AID 1030) • Total Fluorescence Counterscreen for Inhibitors of the Interaction of Thyroid Hormone Receptor and Steroid Receptor Coregulator 2 (AID 1479) • qHTS Assay for Inhibitors of Bacillus subtilis Sfp phosphopantetheinyl transferase (PPTase) (AID 1490) • uHTS fluorescence polarization assay for the identification of translation initiation inhibitors (eIF4H) (AID 2012) • uHTS fluorescence polarization assay for the identification of translation initiation inhibitors (PABP) (AID 2014) • qHTS Assay for Inhibitors of Histone Lysine Methyltransferase G9a (AID 504332)
BRD-K75438609-001-07-7 BAS 01346840 AC1LF15G MLS000856266 HMS1477B15 HMS2686I07 ZINC187045 STK868668 ZINC00187045 IDI1 020411 SMR000279211 ST50251555 PubChem CID : 745172		0.56 (in 4 replicates)	0.51	NA				Total number of assays tested in: 624. Active in the following assays: • uHTS fluorescence polarization assay for the identification of translation initiation inhibitors (PABP) (AID 2014) • Fluorescent Polarization Homogeneous Dose Retest to Confirm Inhibitors of Mex-5 Binding to TCR-2 (AID 449745) • qHTS Assay for Rab9 Promoter Activators (AID 485297) • qHTS Assay for NPC1 Promoter Activators (AID 485313) • qHTS Assay for Inhibitors of JMJD2A-Tudor Domain (AID 504339)

BRD-K19184974-001-05-7 5N-373S MLS000544852 AC1LRZYI CTK7C6774 HMS1365O07 HMS2340I06 ZINC4023716 SBB099830 RP13941 HE014497 KB-99379 SMR000126609 KB-117968 TR-071207 3B3-032047 PubChem CID : 1480186		0.54 (in 4 replicates)	0.50	NA				Total number of assays tested in: 689. Active in the following assays: • qHTS Assay for Activators of Human alpha-Glucosidase as a Potential Chaperone Treatment of Pompe Disease (AID 2242) • uHTS identification of inhibitors of Rpn11 in a Fluorescent Polarization assay (AID 588493) • Fluorescence-based biochemical primary high throughput screening assay to identify inhibitors of the fructose-bisphosphate aldolase (FBA) of M. tuberculosis (AID 588726) • HTS for suppressors of simvastatin-induced mytoxicity in differentiated C2C12 cells Measured in Cell-Based System Using Pulse Reader - 2112-01_Suppressor_SinglePoint_HTS_Activity (AID 602340)
BRD-K53146207-001-05-2 ST50925102 AC1N4R9E MLS001232254 HMS2964G13 ZINC5942343 STK457835 ZINC05942343 SMR000679628 PubChem CID : 4159955		0.56 (in 4 replicates)	0.47	NA				Total number of assays tested in: 501. Active in the following assays: • Luminescence-based primary biochemical high throughput screening assay to identify inhibitors of the Heat Shock Protein 90 (HSP90) (AID 1789) • Luminescence-based confirmation biochemical high throughput screening assay for inhibitors of the Heat Shock Protein 90 (HSP90) (AID 1846) • 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) • qHTS Assay for Rab9 Promoter Activators (AID 485297) • qHTS Assay for NPC1 Promoter Activators (AID 485313) • qHTS screen for small molecules that induce genotoxicity in human embryonic kidney (HEK293T) cells expressing luciferase-tagged ELG1 (AID 504466) • qHTS for Inhibitors of binding or entry into cells for Lassa Virus (AID 540256) • qHTS profiling assay for firefly luciferase inhibitor/activator using purifed enzyme and Km concentrations of substrates (counterscreen for miR-21 project) (AID 588342) • Full deck counterscreen for agonists of the human M1 muscarinic receptor (CHRM1): Fluorescence-based cell-based high throughput screening assay to identify nonselective activators and assay artifacts using the parental CHOK1 cell line (AID 602248) • 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 cell-based primary high throughput screening assay for inhibitors of the orphan nuclear receptor subfamily 0, group B, member 1 (DAX1; NR0B1): repression of SF-1 (NR5A1) activated StAR promoter by full-length DAX-1 (AID 652010) • 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 confirmation assay for inhibitors of the orphan nuclear receptor subfamily 0, group B, member 1 (DAX1; NR0B1): repression of SF-1 (NR5A1) activated StAR promoter by full-length DAX-1 (AID 652134) • Counterscreen for inhibitors of the orphan nuclear receptor subfamily 0, group B, member 1 (DAX1; NR0B1): Luminescence-based cell-based high throughput assay for nonselective inhibitors/assay artifacts using AP2 mutant SF-1 (NR5A1) Transactivation Assay (AID 652136) • 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. glycines (hgDAF-12). (AID 743050)
BRD-K76215709-001-06-9 T0519-8303 ZINC06251621 AC1MMB8P MLS001018163 HMS2639B04 HMS3364M12 ZINC6251621 SMR000354439 PubChem CID : 3283243		0.56 (in 4 replicates)	0.44	0.010				Total number of assays tested in: 632. Active in the following assays: • Primary Cell-based High Throughput Screening Assay for Inhibitors of Wee1 Degradation (AID 1321) • Plate Read Microorganism-Based Primary HTS to Identify Modulators of the AI-2 Quorum Sensing System (AID 2094) • Cycloheximide Counterscreen for Small Molecule Inhibitors of Shiga Toxin (AID 2314) • Luminescence Microorganism Retest to Identify Inhibitors of the AI-2 Quorum Sensing System (AID 2727) • Luminescence Microorganism-Based Retest to Identify Modulators of the AI-2 Quorum Sensing System (AID 2736)
BRD-K50757825-001-05-1 T5335472 SMR000064595 MLS000055913 MLS002634835 AC1M83Z6 HMS2394D20 ZINC58163966 PubChem CID : 2530022		0.67 (in 4 replicates)	0.43	NA				Total number of assays tested in: 752. Active in the following assays: • qHTS Assay for Inhibitors and Activators of Human alpha-Glucosidase Cleavage of Glycogen (AID 2100) • qHTS Assay for Inhibitors of JMJD2A-Tudor Domain (AID 504339) • Counterscreen of compound fluorescence effects on High-throughput multiplex microsphere screening for inhibitors of toxin protease (AID 624483) • 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)
BRD-K48693155-001-01-2 PubChem CID : 54618096		0.87 (in 4 replicates)	-0.70	NA				Total number of assays tested in: 37.

BRD-K67411319-001-01-8 PubChem CID : 44501932		0.87 (in 3 replicates)	-0.68	0.278				Total number of assays tested in: 47.
BRD-K26273696-001-01-5 PubChem CID : 44486963		0.59 (in 3 replicates)	-0.59	0.290				Total number of assays tested in: 34.
BRD-K18337230-001-01-1 PubChem CID : 44492103		0.60 (in 4 replicates)	-0.59	NA				Total number of assays tested in: 43.
BRD-K84157702-001-01-1 PubChem CID : 44489843		0.55 (in 4 replicates)	-0.56	NA				Total number of assays tested in: 43.
BRD-K35308744-001-01-0 PubChem CID : 54647115		0.52 (in 4 replicates)	-0.47	0.212				Total number of assays tested in: 39.
BRD-K09160804-001-01-4 PubChem CID : 54619505		0.65 (in 4 replicates)	-0.46	0.892				Total number of assays tested in: 37.
BRD-K77621546-001-01-5 PubChem CID : 54646387		0.58 (in 4 replicates)	-0.43	0.290				Total number of assays tested in: 40.